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ABSTRACT

This report is the first in a series of analyses of the supply and demand of labor in Delaware. It is intended to inform administrators and planners in economic development, education, and employment and training of the direction and magnitude of employment change through projections of occupational and industrial growth and decline for the period 1984-1990, as well as the relationship between labor supply and demand. Data used in the report were developed through the Bureau of Labor Statistics, U.S. Department of Labor, and include data from the Occupational Employment Statistics Program and Employment, Wages, and Contributions Report. Data on supply and demand were produced within the Delaware Microcomputer Occupational Information System. The report consists of the following four sections: (1) highlights (major features of the report); (2) overview (review and analysis of major trends in occupational and industrial change from 1984-1990); (3) methodology (definition of supply and demand as used in this report, explanation and development of data sources, indications of constraints in data use, and interpretation); (4) Delaware supply/demand clusters (specific supply/demand relationships for each occupational group and the individual occupations therein, including analyses of major implications). An appendix provides detailed information on industrial and occupational growth and decline. (KC)

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DELAWARE

LABOR SUPPLY AND DEMAND

OCCUPATIONAL AND INDUSTRIAL PROJECTIONS: 1984 - 1990

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Mathias J. Fallis, Secretary

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November 15, 1985

DELAWARE

LABOR SUPPLY AND DEMAND

OCCUPATIONAL AND INDUSTRIAL PROJECTIONS: 1984 - 1990

DELAWARE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE
OFFICE OF OCCUPATIONAL AND LABOR MARKET INFORMATION
DELAWARE DEPARTMENT OF LABOR

This report has been prepared by the

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INTRODUCTION

This report is the first in a series to provide analyses of the supply and demand of labor in Delaware's labor market. It is intended to inform administrators and planners in economic development, education, and employment and training of the direction and magnitude of employment change through projections of occupational and industrial growth and decline for the period 1984-1990, as well as the relationship between labor supply and demand.

The focus of labor supply for this effort has been upon the training and educational programs at the secondary and adult levels that are usually associated with vocational education; however, the data have been expanded to include occupations which require education at the baccalaureate level and above.

Source data used in this report have been developed through contractual agreement with the Bureau of Labor Statistics, U.S. Department of Labor, and includes the Occupational Employment Statistics Program and Employment, Wages, and Contributions Report. Data on supply and demand were configured and produced within the Delaware Microcomputer Occupational Information System under a grant from the National Occupational Information Coordinating Committee, matched by funds provided under the Governor's Discretionary funds (Job Training Partnership Act), under the auspices and approval of the Delaware Private Industry Council.

The sections which follow include: **Highlights** (major features of the report); **Overview** (review and analysis of major trends in occupational and industrial change from 1984-1990); **Methodology** (terminology definition, explanation and development of data sources, indications of constraints in data use and interpretation; **Delaware Supply/Demand Clusters** (specific supply/demand relationships for each occupational group and the individual occupations therein, including analyses of major implications); and **Appendices** (detailed information on industrial and occupational growth and decline).

We ask for your comments and suggestions.

James K. McFadden
Edward L. Simon
Janis P. McCullough
Robert H. Schulz

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Mr. Laurence H. Seidel, Staff Director of the New Jersey State Occupational Information Coordinating Committee, and Mr. Carl Thomas, Research and Analysis Chief of the Pennsylvania Department of Employment and Industry, and their respective staffs. Their cooperation has made possible a regional, as well as Delaware, perspective;

The secondary and postsecondary schools who enabled our analysis to be based on the most current data, as well as the administrators of the various training programs in Delaware;

The employers of the State of Delaware, who regularly provide, in a spirit of cooperation, the data essential to an understanding of our labor market; and

A broad cross-section of individuals involved in employment, education, and economic development within the State who reviewed the industry employment projections.

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HIGHLIGHTS

* Delaware is expected to create more than 42,000 net new jobs over the period 1984-1990.

* About 93% of these new jobs will occur in three industries: Services; Trade; and Finance, Insurance and Real Estate.

* Manufacturing will account for more than 5% of the new jobs.

* Employment by industry in 1990 will show that 7 of 10 jobs exist in service-producing industries, a slight increase from 1984.

* Delaware employment will continue to be predominantly white-collar in 1990, as these occupations account for more than 60% of all new jobs.

* Blue-collar occupations will represent more than 13% of new job growth to 1990.

* Many of the fastest-growing occupations to 1990 are also the lowest paying.

* The occupational groups providing the most new jobs are: Clerical; Service; and Professional, Technical, and Kindred Workers.

* Twenty-five occupations will account for nearly 60% of all new jobs to 1990, most of them requiring a high school education or less at the entry level.

* Computer, health and technical occupations account for most of the higher growth areas that require some postsecondary education, but less than a four-year degree.

* Of those occupations requiring a Bachelor's Degree, the greatest demand is for preschool/elementary teachers.

* Analysis of labor supply and demand involves 125 clusters, or supply-demand occupational groupings, representing the relationship between skills available and those required.

* A total of about 15,700 average annual openings are anticipated, compared with more than 17,600 average annual program completers.

* While implications about the relationship between labor supply and demand shouold be drawn from each individual cluster, the overall picture (see Cluster Analysis Summary) is of a labor market not substantially out of balance.

* With the Statewide average as a base, the following relationships emerge:
  - 58 clusters (46% of total) show supply greater than demand;
  - 33 clusters (26% of total) show demand greater than supply; and
  - 34 clusters (27% of total) show a balance between supply and demand.

* As an index of numerical oversupply only (since new training initiatives are sometimes inappropriate due to on-the-job training), the five most oversupplied clusters are, in descending order:

  Real Estate
  Social Scientists
  Computer Operations
  Electrical Services
  Automobile and Engine Mechanics

* As an index of numerical undersupply, the five most undersupplied clusters are, in descending order:

  Food Services
  Wholesale and Retail Marketing
  General Clerical and Typing
  Custodial and Maintenance
  Education

OVERVIEW OF DEMAND: 1984-1990

The employment trend for Delaware is positive for the rest of the decade. Between 1984 and 1990 Delaware should experience a growth of about 42,000 net new jobs. This equates to 7,100 new jobs per year or a 14.3% increase for the 1984-1990 period. The discussion of job outlook in Delaware begins with "where people work" or **trends** in industry employment.

Industry Trends

Industry trends tell people where the jobs will be. Projected demand by industry reveals a continuing emphasis on the shift away from manufacturing and into the service sector and service-related industries. Table I shows total job growth by sector.

TABLE I. DELAWARE EMPLOYMENT PROJECTIONS BY INDUSTRY: 1984-1990.

Sector	Employment 1984	Employment 1990	Growth 1984-90
Agriculture	2.2	2.6	0.4
Construction	16.8	17.9	1.1
Manufacturing	71.7	74.0	2.3
Transportation	13.8	14.0	0.2
Trade	61.5	73.2	11.7
Finance, Ins. & Real Estate	16.9	24.6	7.7
Services	80.5	99.2	18.7
Government (exc. education and hospitals	18.1	17.2	-0.9
TOTAL	281.6	322.8	41.2

Note: Table excludes self-employed; data expressed in thousands.

Table I shows that the Service industry is already the largest employment sector in Delaware and is projected to be the largest source of new jobs as well. Service; Trade; and Finance, Insurance and Real Estate sectors account for nearly 93% of the total projected gains due to growth.

Of the three major growth sectors, **Finance, Insurance and Real Estate (F.I.R.E.)** is the fastest growing, expanding at a rate of 46% for the 1984 through 1990 period. Within this sector certain industries are clearly responsible for the largest portion of this growth. Figure 1 shows the dominance that the banking industry will have in this sector.

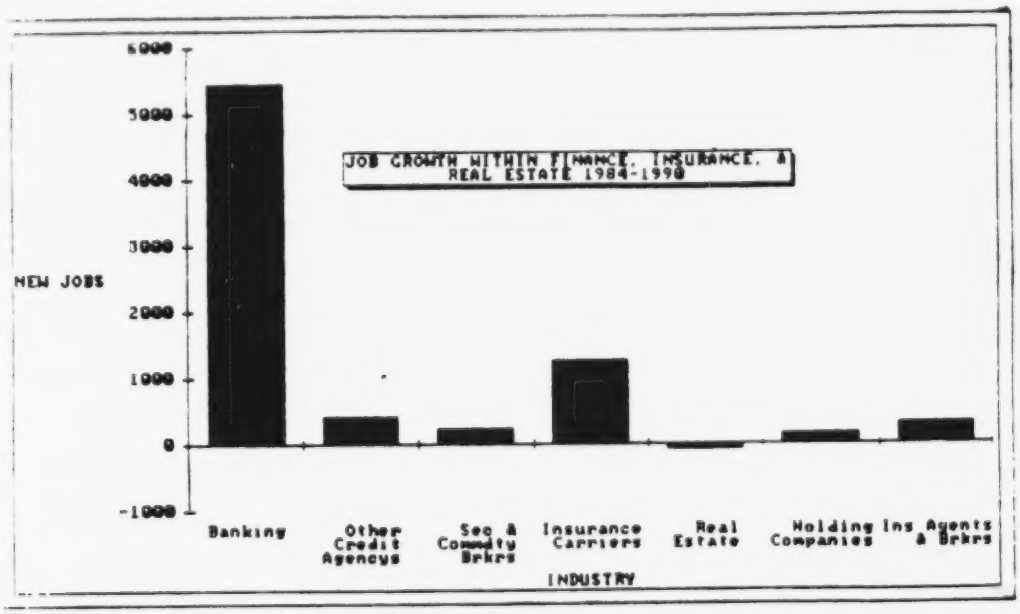

Figure 1. Job Growth within Finance, Insurance, and Real Estate 1984-1990.

Commercial and stock savings banks will account for nearly 5,000 of the total jobs projected in F.I.R.E. While the banking industry is projected to grow at a 71% rate, other industries in F.I.R.E. will be growing at considerably slower rates. Insurance carriers will be growing at a 38% pace, and the Real Estate industry is projected to lose employment (-3%) over the period.

In the Service and Trade sectors similar industry-by-industry differences are noted. In **Services**, an overall growth rate for the period of 23% is considerably slower than the growth rates for miscellaneous business services (33%), amusements and recreation establishments excluding motion pictures (44%), and social services (56%). Service sector industries with negative or slow growth projections include motion pictures (-19%), automotive repair services (10%) and miscellaneous repair services (8%). Within this sector health services and miscellaneous business service account for half of the projected growth (9,580 or 18,715 new jobs). Figure 2 illustrates job growth within the various sub-industries of the Service sector.

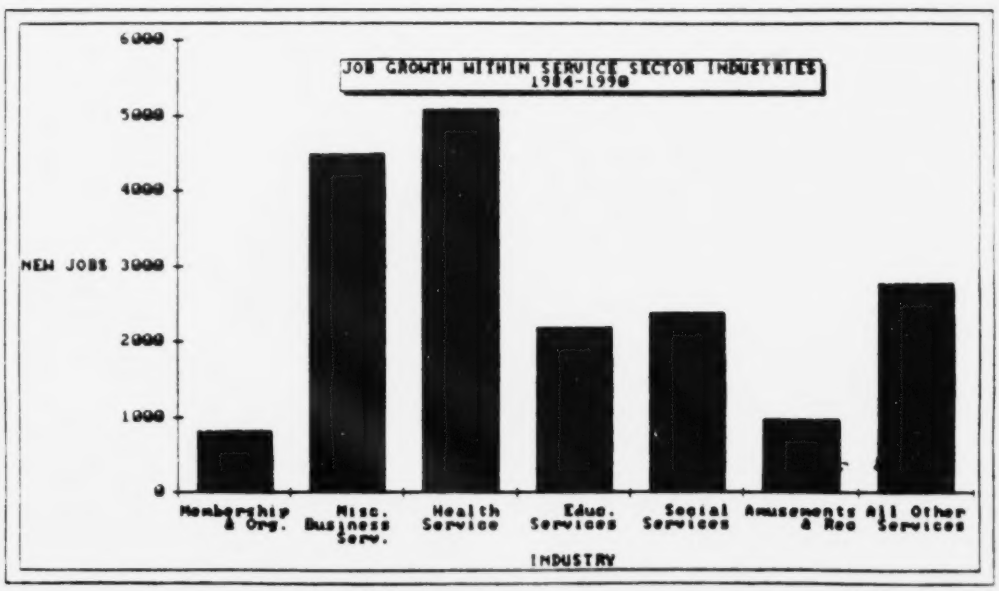

Figure 2. Job Growth Within Service Sector Industries, 1984-1990

In the **Trade** sector, wholesale and retail trade are projected to grow relatively evenly at a 19% rate. Within wholesale trade, the nondurable sector will grow slightly faster than the durable goods sector, 21 percent versus 18 percent, but will generate 1,029 new positions compared with 954 in nondurable goods. Retail trade will account for 9,706 new jobs, representing 83% of all job growth in Trade. Food stores (31% of total retail growth), apparel and accessories stores (25%), and eating and drinking places (22%) are the fastest growing industries in this sector and represent the areas of greatest employment opportunity. Retail trade industries exhibiting relatively slow growth patterns include automobile and recreational vehicle dealers (1%) and furniture and home furnishings stores (6%).

The **Manufacturing** sector was the second largest employment sector in 1984 with 71,715 employees and is expected to generate 2,236 new jobs within the 1984-1990 period. Durable goods manufacturing is expected to grow somewhat more than nondurable goods. Some industry divisions of the manufacturing sector are projected to grow at relatively fast rates including miscellaneous plastics products with a growth rate of 57% and 1,577 new jobs, and professional and scientific instruments with 953 new jobs and a 30% rate of growth. In manufacturing more than in the other major sectors there are a large number of industries reflecting decline, little, or no growth in employment opportunities. Industries showing weakest employment demand include fabricated metal products (75 jobs lost), machinery, excluding electrical (46 jobs lost), electrical machinery, equipment and supplies (29 jobs lost). Textile mill products (105 jobs lost), apparel and textile products (272 jobs lost), petroleum and coal products (53 jobs lost), and chemicals and allied products (1,555 jobs lost). The projected decline in chemical industry jobs is reflected in a shrinking of this industry's portion of total manufacturing sector employment from nearly 45% in 1984 to 41% in 1990.

Net employment growth will occur in all other major industry sectors with the exception of Government (excluding education and hospitals). For a closer industry-by-industry analysis, Appendix D contains employment by industry for all Delaware industries in 1984 with 10 or more employees. (Self-employed workers are projected to grow 9% for the period 1984-1990.) Self-employed data were not included in this section, but have been incorporated into the occupational analysis which follows.

Occupational Trends

The occupational structure of Delaware jobs continues to shift toward more white collar and service jobs and away from blue collar and agricultural occupations (Table II).

Table II. White-Collar Job Increase through 1990

Major Category	Employment (thousands) 1984	1990	Change 1984-1990 Percent	Number (thous)
All Workers	297.7	340.3	14.3	42.6
White Collar	163.7	190.8	16.6	27.1
Blue Collar	85.5	91.3	6.8	5.8
Service	47.3	56.9	20.3	9.6
Farm	1.1	1.2	18.0	0.2

Note: Because of rounding, sum of individual items may not equal totals.

This is not a new trend nor does it reflect a significant restructuring of occupations for the long term. If there is a single, widespread effect on occupations, it is not that the structure of current occupations is changing, but that many of the duties and responsibilities of existing occupations are changing as technological changes occur. The occupation of secretary is a good example of this change. Before the advent of electronic word processing equipment, secretarial skills included shorthand, typing, and knowledge of filing and information flow. Add the word processor and the secretary's job acquires a new dimension.

Table III reveals Delaware employment projections by the nine major occupational categories. Of the more than 42,000 new jobs projected between 1984 and 1990, the largest gains are in Service Workers; Professional, Technical and Kindred Workers, and Clerical Workers.

Table III. Delaware Employment Projections by Occupation: 1984-1990
(Including Self-Employed)

Occupation	Employment 1984	Employment 1990	New Jobs 84-90
Professional, Technical, and Kindred	55.9	64.5	8.6
Managers and Officials	28.3	31.9	3.6
Sales Workers	21.9	25.5	3.6
Clerical Workers	57.7	68.9	11.2
Crafts and Kindred Workers	34.4	37.0	2.6
Operatives	35.1	37.0	1.9
Service Workers	47.3	56.9	9.6
Laborers, Exc. Farm	16.0	17.3	1.3
Farmers and Farm Workers	1.1	1.3	0.2
TOTALS	297.7	340.3	42.6

Note: data expressed in thousands.

Looking at the broad occupational categories in Table III, it is apparent that **Professional, Technical, and Kindred Workers** will occupy the second largest portion of the 1990 labor market. Medical workers and other health technology and technicians are two of the fastest growing occupational areas and represent 2,576 new jobs or 30% of the growth in this occupational group. Teachers, accounting occupations, and lawyers and kindred workers are additional occupational fields representing large portions of the job growth in this area.

Clerical Workers is the largest occupational category and is projected to have a major increase in new jobs by 1990. Twenty-seven percent of the 11,231 new jobs will be secretaries or typists. Bookkeepers, bank tellers, cashiers, and general office clerks represent other fast-growing occupations in this category. Technological change accounts for job loss projections for keypunch operators, stenographers, postal service clerks, central office telephone operators, and ticket, station, or express agents.

The **Service Workers** category shows the second largest contribution to new jobs in the labor market in 1990. Of the 9,608 new jobs in this category, 4,366, or 45%, are food service workers, 1,665, or 17%, are cleaning service workers; 1,475, or 15%, are personal service workers, and 1,188, or 12%, are health service workers.

The **Managers and Officials** category shows a 12% increase, or 3,520 new jobs from 1984 to 1990. Of this growth, 2,596 fall into the "All Other Managers" classification. Store managers and sales managers, with job growth projections of 547 and 147, respectively, are two fast-growing occupations in this group.

Sales Workers are expected to grow by 3,675 over the period. Real estate agents and brokers are expected to decrease in number, while insurance agents and brokers, stock and bond sales agents, and miscellaneous sales workers are all expected to show healthy growth rates ranging between 17% for miscellaneous sales workers and 44% for insurance agents and brokers.

Crafts and Kindred Workers, like the Sales Workers group, reflects both positive and negative growth trends depending on the specific occupations. For example, plasterers, floor sanding machine operators, and auto body repairers are all showing slight declines in numbers employed by 1990, while carpenters, data processing machine mechanics, maintenance mechanics, inspectors, and automotive mechanics each show job growth of more than 85 by 1990. The Crafts and Kindred Workers group will account for 2,578 new jobs by 1990, an increase of about 8%.

The **Operatives** occupational category is projected to grow by 1,884 employees, or 5%, by 1990. Closer examination reveals that 1,200 of the 1,884 , or 64% of the new jobs, are transportation-related occupations. While these are expected to grow at nearly a 12% rate, operatives (excluding transportation) will show less than 1% growth for the period. This slow growth rate is attributed to the modest increases noted earlier for the manufacturing sector. Delivery and route workers, truck drivers and school bus drivers are the three major growth occupations noted in the transportation equipment operatives. In addition to transportation, food production packagers, laundry and drycleaning operators, and miscellaneous operators (rubber or plastics), namely extruders and injection-mold-machine operators, were the only areas showing any appreciable growth within the Operatives group.

The occupational category of **Laborer (excluding Farm Laborers)** is projected to increase by 1,269 by 1990. This is an 8% increase for the period. Gardeners and groundskeepers, stock clerks and order fillers, and trades helpers are the occupations expected to grow the most in this category. Highway maintenance workers, refuse collectors, and forest conservation workers were areas projected to decline slightly.

Farmers and Farm Managers are projected to grow by 18% for the period, but will account for only 197 additional positions. Ninety-five percent of this growth, or 187 jobs, are projected for the farm laborer category.

Figure 3 summarizes the major occupational categories and their share of new job growth through 1990. It re-emphasizes the importance of the Clerical, Service, and Professional and Technical Kindred worker categories as job generators in the next six years.

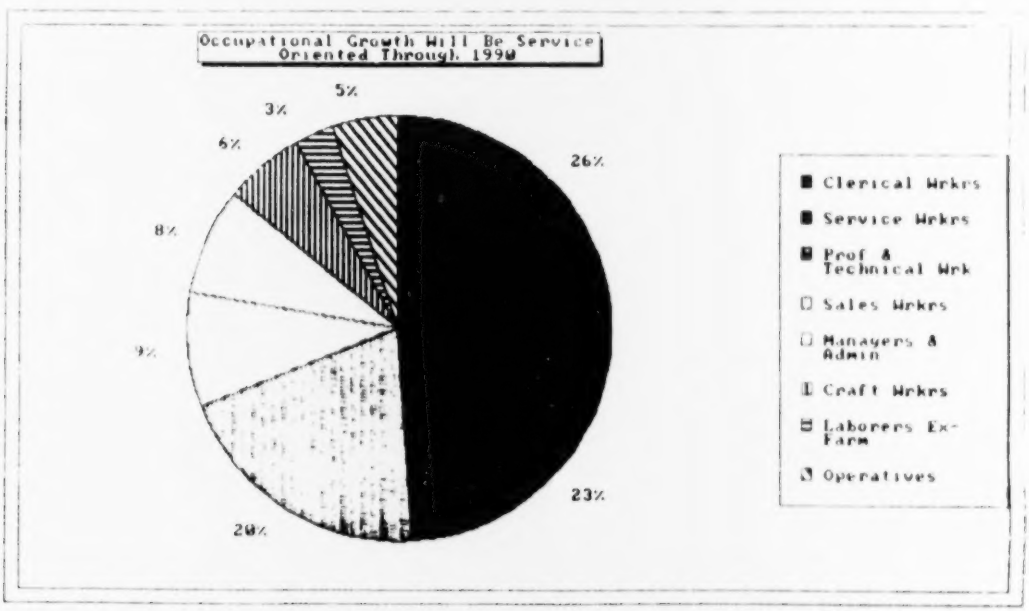

Figure 3. Service-Producing Industries Lead Job Growth through 1990

Occupational opportunities arise from separations as well as from economic growth. Job separations (replacements) occur when people leave the labor force for reasons such as disability, child rearing, retirement, or death. Data reflecting openings created as workers change occupations due to promotions or relocation are not currently available. Table IV shows the top 25 occupations in terms of annual average job openings. The top 25 occupations, ranked in terms of new job growth from 1984 to 1990, can be found in Appendix G. A complete listing of estimated occupational openings can be found in Appendix B.

TABLE IV Top 25 Occupations by Annual Average Job Openings in Delaware: 1984-1990

	Average Annual Openings		
Occupations	Growth	Separations	Total
Sales Clerks	430	546	976
Secretaries	442	387	829
All Other Managers	433	141	574
Food Prep. & Serv. Wr.	295	166	461
Janitors and Cleaners	278	181	459
General Office Clerks	160	251	411
Preschool/El. Teachers	201	168	369
Cashiers	203	163	366
Nurses, Prof. (RN)	192	164	356
Guards & Doorkeepers	95	258	353
Nurses Aides/Orderlies	166	155	321
Waiters or Waitresses	110	177	287
Managers, Store	91	153	244
Typists	87	135	222
Other Ops., Semiskilled	88	133	221
Teachers, Secondary	68	123	191
Accounting Clerks	62	120	182
Other Laborers & Unsk.	61	112	173
Kitchen Helpers	68	104	172
Gardeners,Groundsk.	57	103	160
Lic. Practical Nurses	74	80	154
Accountants/Auditors	66	85	151
Other Office Clerical	76	75	151
Truck Drivers	80	71	151
Systems Analyst,EDP	135	13	148

Of the top 25 occupations, only six generally require postsecondary degrees or some postsecondary school training, suggesting that entry to the labor market is not difficult. The benefits of such easy access to the job market include development of proper work habits, mental discipline, and a sense of responsibility essential to continued success in employment. Appendix H refers to generally accepted educational qualifications for certain growth occupations.

METHODOLOGY

The terms **SUPPLY** and **DEMAND** as used in this report are defined as follows:

OCCUPATIONAL DEMAND

Occupational demand measures available jobs in the Delaware job market. Average annual job openings as used in this report refers to jobs due to growth (net, new jobs) and jobs due to replacement as a result of separation from the labor force (retirement, death, disability). Openings created as a result of occupational or geographic mobility (i.e., turnover) are not estimated, since data of sufficient quality and reliability are not yet available.

Source data for estimating occupational growth over the period 1984-1990 are derived from the Occupational Employment Statistics (OES) Program, administered by the Office of Occupational and Labor Market Information, Delaware Department of Labor. This is a triennial survey of the State's occupational structure, with the following areas of the labor market surveyed once every three years: manufacturing, nonmanufacturing (except trade and government), and the balance of nonmanufacturing. The survey sample is stratified by industry and by size of firm within each industry. Data for employment projections by industry are taken from the Employment, Wages, and Contributions Report, also administered by the Department of Labor, and generated through the Delaware Econometric Model.

The occupational structure, or positional makeup of each industry is called a **staffing pattern**. Staffing patterns represent the percentage distribution, or occurrence, of occupations within particular industries. They are developed through the OES Program for each industry surveyed, and are used to develop an industry/occupation matrix. This matrix is a listing of occupations by rows, and an array of industries, by columns. The intersection of a column (industry) and row (occupation) is called a **cell**, with each cell displaying the percentage of occupational employment that appears in each industry.

To derive estimates of occupational employment for 1990, the percentages of each staffing pattern are multiplied by current and projected total employment by industry. The result is an expectation of the future levels of employment by occupation in Delaware, for each industrial sector. Since all occupations do not grow or decline at the same rate within a particular industry, specific factors for these levels of change, as used herein, have been supplied by the Bureau of Labor Statistics, U.S. Department of Labor.

Total estimated annual average openings are computed by adding average annual job openings due to growth and average annual job openings due to replacement. Annual openings due to growth represent the difference between estimated 1990 employment and employment for 1984, divided by the appropriate number of years (six). This yields the total estimated job openings due to growth. Special tables computed by the Bureau of Labor Statistics of the U.S. Department of Labor, called **working life** tables, are then used to estimate job openings due to separation. Current estimates of openings due to replacement include only labor force separations (retirement, disability, death).

OCCUPATIONAL SUPPLY

Occupational supply data describe the total number of trained, available persons qualified to seek employment by occupational area. The sources of data for occupational supply are the following:

Public and private secondary schools (Delaware Department of Public Instruction);

Public and private postsecondary institutions (HEGIS Reports from each institution and the Delaware Department of Public Instruction);

Delaware vocational/technical secondary schools (Delaware Department of Public Instruction);

Training programs administered under the auspices of the Job Training Partnership Act (Division of Employment and Training, Delaware Department of Labor); and

Apprenticeship and training programs (Delaware Department of Labor and the Delaware Department of Public Instruction).

Data from the Division of Vocational Rehabilitation, Delaware Department of Labor, have been included as part of total public postsecondary supply since the majority of these training programs are carried out through the Delaware Technical and Community College.

SUPPLEMENTAL INFORMATION

Supplemental data for short-term supply and demand comparison were provided by the Division of Employment and Training, Delaware Department of Labor. These data reflect the current occupational requirements of employers served by the Delaware Job Service, including number and occupational profile of applicants as well as the ratio of these applicants to reported openings. The data are taken from the Employment Security Automated Reporting System (ESARS), derived from the Enhanced National Data System (ENDS).

SCOPE

Both demand and supply data represent the best available numbers upon which to base estimates of future activity in the Delaware labor market.

The limitations of the data with respect to **labor demand** are:

Staffing patterns are statewide averages and do not, therefore, reflect possible variations in certain areas of the State;

Data are not intended to predict future economic occurrences, but to approximate long-term trends in the labor market. They represent estimates rather than exactitude; and

Average annual openings reflect employment demand as a function of growth and replacement, not including turnover or occupational or geographic mobility.

Occupational supply data do not account for:

Persons who are unemployed but not registered with the Delaware Job Service;

Persons currently not actively seeking work, nor in a training program, but who may seek employment in the future;

Persons who move from one labor market to another (geographic mobility); or

Persons who, although currently employed in one occupation, may transfer, or be promoted from, their present occupation (occupational mobility).

SUPPLY-DEMAND RELATIONSHIP

The supply-demand relationships are established through a procedure called **clustering**. This is a process wherein similar occupations are grouped into clusters and matched with appropriate educational and training curricula. The cluster concept is central to a supply-demand analysis because, with training in a single program area, an individual may enter several occupations. Conversely, a person may enter a single occupation through several different training programs. The cluster approach minimizes the level of discretion on the part of the analyst in matching training to related occupations through the **national units of analysis**. After grouping data for Delaware into the national units of analysis, Delaware-specific clusters were created. As arranged in final form, these clusters show the interrelationships between the Classification of Instruction Program (CIP) Codes and the occupational demand, which utilizies the OES Matrix Code. Higher education has been included as part of our cluster structure in addition to the usual vocational education institutional supply sources.

There are some occupations in the report for which an estimated demand exists, but for which no current program provides a source of supply. Depending upon the occupation, much of the labor supply could well be provided through on-the-job training programs. Where appropriate, analysis will indicate this possibility so as to not overstate a potential shortfall in certain occupations.

Supply and demand data for certain counties of Pennsylvania and New Jersey have also been included in this report to provide a regional perspective in addition to Delaware's labor market. Detailed data from which the broad occupational cluster analyses were generated are available at the Office of Occupational and Labor Market Information, Delaware Department of Labor.

DELAWARE SUPPLY AND DEMAND CLUSTERS

CLUSTER KEY

Each Delaware cluster is divided into four parts: **Demand, Supply, Supplemental Information, and Narrative Description and Analysis.**

DEMAND

Matrix Title - The Occupational Employment Statistics (OES) title given to a type of occupation.

Matrix Code - The code for the OES data collected up to the matrix level of detail.

Employment:

Estimated 84 -Average number of employed persons by occupation during the base year.

Projected 90 - The year to which total estimated employment by occupation was projected from the base year.

% Change - The percent growth or decline in employment between 1984 and 1990.

Average Annual Openings:

Growth - The yearly increase or decrease in number of workers in an occupation due to economic expansion (or decline) in the industries employing those workers.

Separation - The yearly increase (or decrease) in number of workers in an occupation due to death, disability, and retirement of current workers in an occupation.

Total - The sum of average annual growth and average annual separations.

SUPPLY

Program Title - Title which best represents course content according to the Classification of Instructional Programs (CIP).

Private/Public Secondary - Private and public secondary school completers of vocational programs.

Vocational/Technical Secondary - Includes secondary and postsecondary completers of a vocational/technical program.

Private Postsecondary - Completers of private proprietary schools offering vocational programs.

JTPA - Completers of programs administered under the Job Training Partnership Act.

Apprenticeship & Training - Completers of apprenticeship programs sponsored by the Apprenticeship and Training Program of the Delaware Department of Labor and the Delaware Department of Public Instruction.

Higher Education - Completers of programs at two- and four-year institutions (public and private), including certificate, diploma, and degree recipients (undergraduate and graduate).

Total Completers - Represents all completers by program area.

SUPPLEMENTAL INFORMATION

DOT Code & Title - Dictionary of Occupational Titles. A detailed classification system utilized for identifying numerous details about kind, level, and environment of the work performed.

Applicants - Applicants registered with the Delaware Job Service (September 1985) as reflected in Table 96 of the Employment Security Automated Reporting System (ESARS) provided by the Division of Employment and Training of the Delaware Department of Labor.

Total Openings - The number of job openings received during fiscal year 1985 from those employers using the Delaware employment security agencies.

Ratio - The numerical relationship between active job applicants and reported job openings.

Hourly Wages - Not available for this report.

NARRATIVE DESCRIPTION AND ANALYSIS

Brief statement of the supply-demand situation for each cluster, including an occupational description and implications of identified labor market trends.

CLUSTER ANALYSIS SUMMARY

CLUSTER NUMBER	CLUSTER TITLE	EMPLOY 1984	EMPLOY 1990	% CHANGE	AVE ANN GROWTH	AVE ANN SEP	TOTAL OPENINGS	COMPLE-TERS	DEMAND LESS SUPPLY
0420	REAL ESTATE OCCUPATIONS	1232	1064	-13.63	-28	58	30	2608	-2578
1050	SOCIAL SCIENTISTS	133	139	4.51	1	2	3	723	-720
0110	COMPUTER OPERATIONS	891	1278	43.43	64	12	76	695	-619
0210	ELECTRICAL SERVICES	2526	2704	7.05	30	44	74	499	-425
0700	AUTO & ENGINE MECHANICS	4094	4223	3.15	21	77	98	450	-352
0370	ACCOUNTANTS	2718	3111	14.46	66	85	151	489	-338
0380	BOOKKEEPING & ACCOUNTING	6515	7489	14.95	162	263	425	695	-270
0230	PLUMBERS & PIPEFITTERS	1714	1805	5.31	15	53	68	317	-249
0200	CARPENTRY & RELATED	3684	3828	3.91	24	111	135	373	-238
0020	ADMINISTRATORS AND OTHER MANAGE	19966	22553	12.96	431	141	572	802	-230
1200	AIRCRAFT OPERATION	109	109	0.00	0	1	1	221	-220
1150	COSMETOLOGY	1992	2535	27.26	90	96	186	388	-202
0170	LITERARY SERVICES	296	326	10.14	5	8	13	305	-192
0630	WELDING OCCUPATIONS	1397	1317	-5.72	-13	26	13	196	-183
0510	ELECTRIC/ELECTRONIC TECHNOLOGY	686	826	20.41	23	6	29	206	-177
1030	PSYCHOLOGISTS	181	226	24.86	8	2	10	174	-164
0680	HEATING, AIR COND & REFRIGERATIO	581	633	8.95	9	9	18	173	-155
1100	BIOLOGICAL SCIENCES	579	574	-.85	-1	15	14	168	-154
1120	PHYSICAL SCIENTISTS	248	232	-6.44	-3	0	-3	134	-137
0610	MACHINIST SERVICES	1855	1932	4.15	14	43	57	182	-125
1000	LAW OCCUPATIONS	2108	2395	13.61	49	77	126	248	-122
0620	SHEET METAL OCCUPATIONS	747	765	2.41	3	14	17	134	-117
0710	AUTO BODY REPAIR	670	670	0.00	1	11	12	128	-116
0060	AGRICULTURAL SCIENCES	46	47	2.17	0	2	2	37	-35
0320	DRAFTING	1380	1425	3.26	8	0	8	36	-28
0410	PROF. FINANCIAL SERVICES	531	808	46.64	43	32	75	147	-72
0820	EMERGENCY MED. TECHNOLOGY	130	132	1.54	1	4	5	76	-71
0080	HORTICULTURE & LANDSCAPING	1606	1948	21.30	57	103	160	224	-64
0810	DIETICIANS	83	102	22.89	3	5	8	72	-64
0040	AGRICULTURAL POWER & MACHINERY	54	62	14.81	2	2	4	66	-62
0130	DATA ENTRY OPERATIONS	1419	1131	-20.29	-48	35	-13	49	-62
0340	ENGINEER, MECHANICAL	1356	1354	-.14	0	28	28	90	-62
0470	FOOD PRODUCTION & PROCESSING	4042	4297	6.31	42	111	153	212	-59
0010	OFFICE ADMINISTRATION & MANAGEM	3081	3653	18.57	36	102	138	254	-56
0030	AGRICULTURAL BUSINESS	109	124	13.76	3	4	7	63	-56
0180	RADIO & TV PRODUCTION	162	164	1.23	0	0	0	55	-55
0690	AIRCRAFT MECHANICS	427	413	-3.27	-2	5	3	58	-55
0850	MISC. HEALTH OCCUPATIONS	460	554	20.43	16	12	28	79	-51
0430	FINE ARTS	32	32	0.00	0	0	0	50	-50
0330	ENGINEER, ELECTRICAL	798	879	10.15	14	19	33	82	-49
0970	SECRETARY-STENOGRAPHIC	10338	12941	24.46	424	426	850	897	-47
0305	ENGINEER, CIVIL	453	467	3.09	2	17	19	65	-46
1020	MATHEMATICIANS	242	262	8.26	4	3	7	52	-45
0660	TOURISM	524	603	15.08	13	32	45	87	-42
0720	ELECTRONIC OCCUPATIONS	322	474	47.20	26	3	29	70	-41
0270	WOODWORKING OCCUPATIONS	284	321	13.03	6	14	20	58	-38
0140	COMMERCIAL ART	919	1070	16.43	25	18	43	77	-34
0190	BRICK, BLOCK, & STONEMASONRY	1001	1121	11.99	20	19	39	73	-34

CLUSTER NUMBER	CLUSTER TITLE	EMPLOY 1984	EMPLOY 1990	% CHANGE	AVE ANN GROWTH	AVE ANN SEP	TOTAL OPENINGS	COMPLE-TERS	DEMAND LESS SUPPLY
0740	MARINE MAINTENANCE	104	99	-4.80	-1	1	0	32	-32
0600	TEXTILE INDUSTRY OCCUPATIONS	1834	1493	-18.58	-57	58	1	30	-29
0840	MEDICAL LABORATORY TECHNOLOGY	615	701	13.98	15	22	37	66	-29
0880	PHYSICAL THERAPISTS	125	156	24.80	5	3	8	35	-27
0750	MISCELLANEOUS REPAIR	973	1119	15.01	23	29	52	74	-22
0590	POWER UTILITIES OCCUPATIONS	807	814	0.87	1	22	23	43	-20
0790	DENTAL LAB TECHNOLOGY	59	76	28.81	3	4	7	27	-20
0280	UPHOLSTERERS	150	156	4.00	1	3	4	22	-18
0350	MECHANICAL TECHNOLOGY	98	128	30.61	5	2	7	25	-18
0730	INDUSTRIAL MAINTENANCE	1698	1855	9.25	26	38	64	81	-17
0300	ENGINEER, CHEMICAL	1572	1901	20.93	55	23	78	91	-13
0360	ENGINEER, OTHER	994	975	-1.90	-3	20	17	29	-12
1070	FIRE & FIRE SAFETY	246	239	-2.84	-1	5	4	14	-10
0770	DENTAL ASSISTING	375	464	23.73	15	17	32	40	-8
1110	CHEMISTS	1587	1807	13.86	37	30	67	74	-7
0070	CONSERVATION	118	112	-5.07	-1	5	4	10	-6
1090	PUBLIC SAFETY, HEALTH & SANITAT	515	482	-6.40	-5	20	15	20	-5
0440	PERFORMING ARTS	119	153	28.57	6	4	10	14	-4
0160	PRINTING & GRAPHIC ART	954	1052	10.27	15	23	38	41	-3
0950	RESPIRATORY THERAPY	77	98	27.27	4	2	6	8	-2
0520	FOUNDRY OCCUPATIONS	63	60	-4.75	-1	0	-1	0	-1
0090	LOGGING, FORESTRY OCCUPATIONS	44	47	6.82	0	1	1	0	1
0860	OPTOMETRISTS	40	38	-4.99	0	1	1	0	1
0150	COMMERCIAL PHOTOGRAPHY	148	190	28.38	7	1	8	6	2
0570	PAPER OCCUPATIONS	107	117	9.35	1	1	2	0	2
0900	PODIATRISTS	118	126	6.78	1	1	2	0	2
0930	RADIOLOGY	269	336	24.91	11	9	20	17	3
0310	CIVIL TECHNOLOGY	489	522	6.75	6	7	13	9	4
0500	CHEMICAL TECHNOLOGY/PLANT OPERA	1614	1563	-3.15	-10	38	28	21	7
0640	OTHER METAL WORKING OCCUPATIONS	217	230	5.99	2	6	8	0	8
0260	JEWELRY OCCUPATIONS	62	73	17.74	2	8	10	1	9
0100	VETERINARIANS	150	193	28.67	7	3	10	0	10
0780	DENTAL HYGIENE	253	318	25.69	11	9	20	10	10
0290	ARCHITECTS	117	157	34.19	7	4	11	0	11
0460	BUTCHERING	447	527	17.90	13	11	24	13	11
1130	MISC. TECHNICIANS	3798	3835	4.07	-27	38	11	0	11
1180	HOTEL & LODGING SERVICE	546	752	37.73	34	24	58	47	11
0220	HEAVY CONSTRUCTION & MINING	2030	2112	4.04	14	45	59	45	14
0530	INDUSTRIAL TECHNOLOGY	556	706	26.98	25	9	34	20	14
0650	ADVERTISING SERVICES	193	252	30.57	10	7	17	3	14
0800	DENTISTS	522	563	7.85	7	8	15	0	15
0490	ASSEMBLER OCCUPATIONS	3392	3372	-6.11	-36	52	16	0	16
0760	CHIROPRACTORS	85	79	-7.05	-1	17	16	0	16
0920	PROF. NURSING SERVICES	4132	5282	27.83	192	164	356	340	16
0940	REHABILITATION SERVICES	402	492	22.39	15	9	24	6	18
0450	BAKING	252	316	25.40	11	8	19	0	19
1095	RECREATION	482	556	15.35	12	23	35	12	23
1210	RAILROAD OCCUPATIONS	506	575	13.64	12	15	27	0	27
1010	LIBRARIANS	746	785	5.23	6	23	29	0	29
0050	AGRICULTURAL PRODUCTION	1283	1485	15.74	34	57	91	61	30
0870	PHARMACISTS	290	362	24.83	12	18	30	0	30
0120	COMPUTER SCIENCE OCCUPATIONS	1741	2802	60.94	178	24	202	155	47
1060	PROFESSIONAL OCCUPATIONS, MISC.	2705	2980	10.17	16	41	57	0	57
0580	PLASTICS OCCUPATIONS	534	774	44.94	42	16	58	0	58

CLUSTER NUMBER	CLUSTER TITLE	EMPLOY 1984	EMPLOY 1990	% CHANGE	AVE ANN GROWTH	AVE ANN SEP	TOTAL OPENINGS	COMPLE-TERS	DEMAND LESS SUPPLY [2]
1190	LAUNDERING & DRY CLEANING SERVI	723	903	24.90	29	30	59	1	58
1040	SOCIAL WORKERS	1016	1161	14.27	25	42	67	8	59
0890	PHYSICIANS	1336	1593	19.24	43	20	63	0	63
1140	CHILD CARE SERVICES	1163	1661	42.82	84	82	166	93	73
0240	OTHER CONSTRUCTION	5529	5779	4.52	43	122	165	87	78
0980	CLERGY	736	934	26.90	34	46	80	0	80
0910	PRACTICAL NURSING	1555	1998	28.49	74	80	154	66	88
1170	INFORMATION SERVICES	2872	3083	7.35	34	84	118	0	118
1195	MISC. SERVICES	3371	3860	14.51	84	101	185	4	181
0550	LABORERS, MISC.	8446	8834	4.59	64	136	200	11	189
0400	INSURANCE OCCUPATIONS	1739	2527	45.31	133	62	195	0	195
0830	HEALTH/HUMAN SERVICES	4899	6116	24.84	203	193	396	185	211
0560	OPERATIVES, MISC. & SEMI-SKILLE	7042	7534	6.99	84	160	244	0	244
1220	VEHICLE OPERATION	8740	9848	12.68	185	222	407	145	262
0390	FINANCE & CREDIT	2902	4298	48.10	234	100	334	59	275
0250	CRAFTWORKERS, SKILLED, ALL OTHE	7332	7862	7.23	89	201	290	0	290
0540	INVENTORY & MATERIAL HANDLING O	7806	8864	13.55	178	186	364	15	349
1080	PROTECTIVE SERVICES	4335	4946	14.09	102	337	439	66	373
0990	EDUCATION	13925	16039	15.18	352	454	806	370	436
1160	CUSTODIAL & MAINTENANCE	12035	14044	16.69	336	276	612	133	479
0960	GENERAL CLERICAL & TYPING	21089	24463	16.00	604	731	1335	841	494
0670	WHOLESALE & RETAIL MARKETING	30161	35570	17.93	905	947	1852	614	1238
0480	FOOD SERVICES	22040	26405	19.80	729	748	1477	28	1449
** TOTAL **		297346 [1]	339897		7130	8539	15669	17625	-1956

1. Totals exclude occupations with employment of less than five in 1984.

2. Demand less supply is total annual average job openings minus total annual completers:

   a.) a negative number indicates supply greater than demand.

   b.) a positive number indicates demand greater than supply.

   c.) demand less supply data within the ± range lo are considered to be in relative balance, since this represents the statewide supply-demand numerical average.

I. ADMINISTRATION

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: OFFICE ADMINISTRATION & MANAGEMENT
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0010

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
PURCHASING AGENTS &/OR BUY	10240801	516	530	2.71	2	14	16
PERSONNEL,LABOR REL SPECIA	10242802	769	796	3.51	5	18	23
EMPLOYMENT INTERVIEWERS	10242803	276	335	21.38	10	7	17
CLAIMS TAKERS,UNEMP BENEFI	10243818	29	29	0.00	0	1	1
CLERICAL SUPERVISORS	40061200	1473	1946	32.11	79	61	140
TOWN CLERKS	40066840	18	17	-5.56	0	1	1
TOTALS		3081	3653	18.57	96	102	198

11/27/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: OFFICE ADMINISTRATION & MANAGEMENT
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0010

- PROGRAM - TITLE	CIP CODE	PRI/PUB VOTECH SECOND	SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
OFFICE SUPERVISION & M	07.0401	21			8		127	156
PERSONNEL & TRAINING P	07.0599	73	15					88
MEDICAL OFFICE MANAGEM	17.0505						10	10
*** TOTALS		94	15		8		137	254

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[O] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: OFFICE ADMINISTRATION & MANAGEMENT — DELAWARE CLUSTER # 0010

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
162.157-038	PURCHASING AGENT	17	0	--
166.267-018	JOB ANALYST	0	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0010

N0010 Office Administration and Management

This cluster includes occupations concerned with planning, organizing, directing and controlling specialized functions in support of office management.

The rate of growth for this cluster from 1984 through 1990 is slightly higher than the 14.3% average rate of change for all occupations. Clerical supervisors is the largest and fastest growing occupation in this cluster, reflecting the high demand in Delaware for clerical positions.

Job openings in this cluster are relatively evenly distributed between annual growth and separations. Approximately two-thirds of the openings due to growth for this cluster are expected to occur in the finance, insurance, and real estate sector.

Occupational supply greatly exceeds demand for this cluster. However, most of the supply is attributed to higher education and many of these completers may obtain positions in other fields.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: ADMINISTRATORS AND OTHER MANAGERS
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0020

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
CHIEF EXECUTIVES,LEGIS.	20041000	335	316	-4.00	-2	0	-2
ALL OTHER MANAGERS	20061699	19741	22337	13.15	433	141	574
TOTALS		19966	22553	12.96	431	141	572

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: ADMINISTRATORS AND OTHER MANAGERS
PROGRAM COMPLETIONS DELAWARE CLUSTER # 0020

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP-RENT	HIGHER EDUC	TOTAL COMP
BUSINESS & MANAGEMENT	06.0101						75	75
BUSINESS ADMIN & MANAG	06.0401	19				14	490	523
PRODUCTION MANAGEMENT	06.0403						44	44
BUSINESS ECONOMICS	06.0501						58	58
HOTEL/MOTEL MANAGEMENT	06.0701						61	61
TRANSPORTATION MANAGEM	06.0705						3	3
OPERATIONS RESEARCH	06.1302						4	4
BUSINESS AND MANAGEMEN	06.9999						16	16
ENGINEERING ADMIN & MG	30.0301						1	1
PUBLIC ADMINISTRATION	44.0401						17	17
*** TOTALS		19				14	769	802

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: ADMINISTRATORS AND OTHER MANAGERS DELAWARE CLUSTER # 0020

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
163.167-018	MANAGER, SALES	14	1	14.0
169.167-010	ADMINISTRATIVE ASSISTANT	27	2	13.5
169.167-034	MANAGER, OFFICE	27	4	6.8
187.167-154	MANAGER, THEATER	0	0	--
187.167-186	RESIDENCE SUPERVISOR	0	0	--
189.117-022	MANAGER, INDUSTRIAL ORGAN	1	0	--
299.137-010	MANAGER, DEPARTMENT	14	2	7.0

NARRATIVE ANALYSIS FOR CLUSTER 0020

N0020 Administrators and Other Managers

This cluster includes managers primarily concerned with policymaking, planning, staffing, and overall coordination.

This cluster is growing at a slightly lower rate than the occupational average for the 1984 through 1990 period. Growth in managerial occupations in Delaware will be concentrated in the finance, insurance, and real estate and service sectors. Average annual openings due to growth will far exceed those attributed to labor force separations.

Occupational supply exceeds demand for this cluster. Although higher educational completers exceed demand, no data exists to determine how many of these completers will remain in Delaware or whether they will initially enter management positions.

The current job service data supports the long term trend of a substanial surplus of applicants to openings.

11. AGRICULTURE

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: AGRICULTURAL BUSINESS
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0030

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
EXTENSION SERVICE SPECIALI	10202004	36	40	11.11	1	1	2
COUNTY AGRIC. SPECIALISTS	10241400	10	11	10.00	0	1	1
FARM MANAGERS	90020400	35	41	17.14	1	1	2
FARM SUPERVISORS	90040200	28	32	14.29	1	1	2
TOTALS		109	124	13.76	3	4	7

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: AGRICULTURAL BUSINESS
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0030

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
AG BUS & MANAGEMENT	01.0101	10					22	32
AGRICULTURAL BUSINESS	01.0102						6	6
AGRICULTURAL ECONOMICS	01.0103						14	14
FARM AND RANCH MANAGEM	01.0104	11						11
*** TOTALS		21					42	63

There is no supplemental information available for this cluster.

N0030 Agricultural Business

This cluster includes persons who apply economic and business principles to the organization, operation and management of farm and/or agricultural businesses.

This cluster, for the 1984 to 1990 span, is growing at about the average rate for all occupations. Total employment for this cluster is relatively small and average annual job openings due to growth are few.

Total supply for this cluster far exceeds demand. Many of the higher education completers will find employment in the chemical technology or food production industries.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: AGRICULTURAL POWER & MACHINERY
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0040

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
BLACKSMITHS	50060200	5	4	-20.00	0	0	0
FARM EQUIPMENT MECHANICS	50081600	49	58	18.37	2	2	4
TOTALS		54	62	14.81	2	2	4

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: AGRICULTURAL POWER & MACHINERY
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0040

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
AGRICULTURAL POWER MAC	01.0204	66						66
*** TOTALS		66						66

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: AGRICULTURAL POWER & MACHINERY DELAWARE CLUSTER # 0040

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
624.281-010	FARM-EQUIPMENT MECHANIC 1	0	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0040

N0040 Agricultural Power and Machinery

This cluster includes individuals who service, maintain and repair a variety of agricultural power units, machinery, and equipment.

This small cluster reflects average growth for the period and a small number of average annual openings. Supply exceeds demand. Skills learned by completers are applicable to other occupations.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: AGRICULTURAL PRODUCTION
DELAWARE DEPARTMENT OF LABOR DELAWARE CLUSTER # 0050

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
MILLERS	50142603	8	9	12.50	0	1	1
MIXERS, FOOD & TOBACCO	61083856	202	213	5.45	2	3	5
FEED PELLET MILL OPERATORS	61086236	40	43	7.50	1	1	2
FARM LABORERS	90040409	1033	1220	18.10	31	52	83
TOTALS		1283	1485	15.74	34	57	91

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: AGRICULTURAL PRODUCTION
PROGRAM COMPLETIONS DELAWARE CLUSTER # 0050

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
AGRICULTURAL PRODUCTIO	01.0301	11						11
ANIMAL PRODUCTION	01.0302	43						43
CROP PRODUCTION	01.0304	7						7
*** TOTALS		61						61

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[O] STATE OF DELAWARE DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: AGRICULTURAL PRODUCTION DELAWARE CLUSTER # 0050

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
403.687-018	HARVEST WORKER, FRUIT	4	2	2.0
404.687-010	FARMWORKER, FIELD CROP 2	0	0	--
404.687-014	HARVEST WORKER, FIELD CRO	0	0	--
410.684-010	FARMWORKER, DAIRY	1	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0050

N0050 Agricultural Production

This cluster includes occupations concerned with the production of agricultural goods such as farm laborers and selected food processors.

This cluster reflects slightly higher than average employment growth for the 1984-1990 period. The majority of the job openings in this cluster will come from annual separations in the farm laborer occupation. Annual occupational demand is expected to exceed supply by a significant amount. The undersupply for this cluster is not a problem because little or no formal training is required for most of these positions.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: AGRICULTURAL SCIENCES
DELAWARE DEPARTMENT OF LABOR DELAWARE CLUSTER # 0060

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
AGRICULTURAL SCIENTISTS	10040200	46	47	2.17	0	2	2
TOTALS		46	47	2.17	0	2	2

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: AGRICULTURAL SCIENCES
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0060

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
AG SCIENCES, GENERAL	02.0101						10	10
ANIMAL SCIENCES, GENER	02.0201						44	44
POULTRY	02.0209						3	3
FOOD SCIENCES, GENERAL	02.0301	1						1
PLANT SCIENCES, GENERA	02.0401						39	39
*** TOTALS		1					96	97

There is no supplemental information available for this cluster.

N0060 Agricultural Sciences

This cluster includes persons who apply theories, principles, and appropriate skills to the production and management of animal and food products.

This cluster has a projected growth rate far below the occupational average rate for the period. Modest employment growth in the manufacturing sector appears to be affecting employment opportunities in this cluster. Annual average job openings are expected to be limited for this cluster. Supply far exceeds demand, though many higher education completers are expected to find employment outside of Delaware or in other fields.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: CONSERVATION
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0070

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
FORESTERS & CONSERVATION M	10241600	34	33	-2.94	0	3	3
FISH & GAME WARDENS	70100606	38	37	-2.63	0	1	1
FOREST CONSERVATION WORKER	80002831	46	42	-8.70	-1	1	0
TOTALS		118	112	-5.07	-1	5	4

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: CONSERVATION
PROGRAM COMPLETIONS

DELAWARE CLUSTER # 0070

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
RENEWABLE NATURAL RESO	03.0101	6					4	10
*** TOTALS		6					4	10

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION
DELAWARE DEPARTMENT OF LABOR

[O] STATE OF DELAWARE
CLUSTER TITLE: CONSERVATION

DELAWARE CLUSTER # 0070

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
040.061-034	FORESTER	1	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0070

N0070 Conservation

This cluster includes occupations concerned with the conservation and improvement of natural resources including air, soil, water, land, fish, and wildlife for both ecomonic and recreational purposes.

This small cluster has projected a slight decline in employment for the 1984-1990 period. Some employment opportunity does exist due to average annual separations, but the number of openings due to separation is quite limited and supply data appear to be more than adequate to fill these openings.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: HORTICULTURE & LANDSCAPING
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0080

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
GARDENERS & GROUNDSKEEPERS	80001401	1599	1941	21.39	57	103	160
TREE TRIMMERS	80001402	7	7	0.00	0	0	0
TOTALS		1606	1948	21.30	57	103	160

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: HORTICULTURE & LANDSCAPING
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0080

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
HORTICULTURE, GENERAL	01.0601	58	15			117		190
ARBORICULTURE	01.0602	1						1
GREENHOUSE OPERATION A	01.0604	31						31
NURSERY OPERATION AND	01.0606	2						2
*** TOTALS		92	15			117		224

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[O] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: HORTICULTURE & LANDSCAPING — DELAWARE CLUSTER # 0080

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
408.161-010	LANDSCAPE GARDENER	8	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0080

N0080 Horticulture and Landscaping

This cluster includes persons who provide landscaping services and process and market plants, shrubs, and trees for ornamental, recreational and aesthetic purposes.

Employment in this cluster is projected to grow slightly faster than the average for all occupations. Annual separations exceed average annual openings due to growth by nearly a two to one ratio. The majority of future job opportunities are expected to come from the service sector; especially in the amusement and recreation area. Supply exceeds demand. A large number of apprentice completers is noted in the general horticultural training program; apprentice completers may not necessarily enter the field for which they are trained.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: LOGGING, FORESTRY OCCUPATIONS
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0090

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
LOGGING TRACTOR OPERATORS	50021000	13	10	-23.08	-1	0	-1
CUT-OFF SAW OPERATORS, LUM	61085003	11	13	18.18	0	0	0
OFFBEARERS	80001009	6	7	16.67	0	0	0
FALLERS &/OR BUCKERS	80001805	14	17	21.43	1	1	2
TOTALS		44	47	6.82	0	1	1

There is no institutional supply data available for this cluster.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[O] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: LOGGING, FORESTRY OCCUPATIONS — DELAWARE CLUSTER # 0090

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
929.683-010	LOGGING-TRACTOR OPERATOR	2	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0090

N0090 Logging, Forestry

This cluster includes operatives and laborers employed in the cutting and clearing processes of the logging industry.

This cluster is growing more slowly than the average for all occupations. In terms of employment, this is a relatively small cluster having few job openings. There are no institutional sources of supply for these occupations as skills are developed through on the job training.

11/26/85

DELAWARE OCCUPATIONAL INFORMATION SYSTEM

D E M A N D R E P O R T

(0) STATE OF DELAWARE
CLUSTER TITLE: VETERINARIANS
DELAWARE DEPARTMENT OF LABOR

DELAWARE CLUSTER # 0100

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
VETERINARIANS	10102000	150	193	28.67	7	3	10
TOTALS		150	193	28.67	7	3	10

There is no institutional supply or supplemental information available for this cluster.

N0100 Veterinarians

This cluster includes persons involved with the diagnosis and treatment of diseases and disorders of animals by using clinical and surgical skills.

This cluster is growing at a faster rate than the average for all occupations in Delaware. Seventy percent of total annual openings are expected to come from new job formation. No supply sources are indicated because required training is only available out of state.

III. COMPUTER OCCUPATIONS

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: COMPUTER OPERATIONS
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0110

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
COMPUTER OPERATORS	40040601	731	1069	46.24	56	10	66
PERIPHERAL EDP EQPT OPERAT	40040602	160	209	30.62	8	2	10
TOTALS		891	1278	43.43	64	12	76

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: COMPUTER OPERATIONS
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0110

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
BUSINESS DATA PROCESSI	07.0301						160	160
BUSINESS COMPUTER / CO	07.0302	336	4					340
BUSINESS DATA PROCESSI	07.0399	14	25			10		49
DATA PROCESSING	11.0301				9	34	88	131
COMPUTER TECHNOLOGY	15.0301					12	13	25
*** TOTALS		350	29		9	46	261	695

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: COMPUTER OPERATIONS — DELAWARE CLUSTER # 0110

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
213.362-010	COMPUTER OPERATOR	27	5	5.4

NARRATIVE ANALYSIS FOR CLUSTER 0110

N0110 Computer Operations

This cluster includes occupations concerned with operating electronic, optical and electromechanical machines that record, store, process, and transcribe data from magnetic tape and other sources.

This cluster is growing significantly faster than the average for all occupations. Manufacturing, finance, insurance, services, and government are the sectors employing the greatest number of computer operators. Supply far exceeds demand for this cluster. The number of job openings could exceed those indicated because of occupational mobility. Supplemental information indicates that the number of applicants currently exceeds the number of openings.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: COMPUTER SCIENCE OCCUPATIONS
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0130

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS -- GROWTH	SEP.	TOTAL
COMPUTER PROGRAMMERS	10160200	792	1047	32.20	43	11	54
SYSTEMS ANALYSTS, EDP	10160400	949	1755	84.93	135	13	148
TOTALS		1741	2802	60.94	178	24	202

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: COMPUTER SCIENCE OCCUPATIONS
PROGRAM COMPLETIONS DELAWARE CLUSTER # 0120

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP-RENT	HIGHER EDUC	TOTAL COMP
BUSINESS DATA PROGRAMM	07.0305	66				26		92
COMPUTER & INFO SCIENC	11.0101						63	63
*** TOTALS		66				26	63	155

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: COMPUTER SCIENCE OCCUPATIONS DELAWARE CLUSTER # 0120

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
012.167-066	SYSTEMS ANALYST, ELECTRON	2	2	1.0
020.162-014	PROGRAMER, BUSINESS	3	0	--
219.367-026	PROGRAMER, DETAIL	1	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0120

N0120 Computer Science Occupations

This cluster includes systems analysts who plan and develop methods for computerizing business and scientific tasks or improve computer systems already in use and computer programmers who often work from plans developed by systems analysts to convert statements of problems into flow charts and coded language for solution by data processing equipment.

This cluster is one of the fastest growing occupational clusters noted with a rate of 61 percent for the 1984-1990 period. Annual job openings due to growth will far exceed those due to separations. The low separation estimates indicate a relatively youthful workforce in this field. Demand exceeds supply by a moderate amount, as these occupations afford good employment opportunities for the future.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: DATA ENTRY OPERATIONS
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0130

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL GROWTH	OPS - SEP.	OPS - TOTAL
KEY ENTRY OPERATORS	40041000	1419	1131	-20.30	-48	35	-13
TOTALS		1419	1131	-20.29	-48	35	-13

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: DATA ENTRY OPERATIONS
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0130

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
BUSINESS DATA ENTRY	07.0303				32	17		49
*** TOTALS					32	17		49

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: DATA ENTRY OPERATIONS — DELAWARE CLUSTER # 0130

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
203.582-030	KEYPUNCH OPERATOR	27	2	13.5

NARRATIVE ANALYSIS FOR CLUSTER 0130

N0130 Data Entry Operations

This cluster includes occupations involving key-to-disk, keypunch machines and special data preparation equipment operation.

This cluster shows a substantial decline in employment from 1984-1990. Annual separations, however, almost offset the decline in average annual job openings. This employment decline is indicative of technological changes including decentralization of data entry operations and increased usage of on-site direct data entry terminals and optical scanners. There appears to be an adequate number of persons trained to enter these occupations to meet needs and openings created through job mobility. Supplemental information indicates the number of applications far exceeds job openings for the current period.

IV. COMMERCIAL & GRAPHIC ARTS

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: COMMERCIAL ART
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0140

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
DESIGNERS	10221001	552	649	17.57	16	10	26
COMMERCIAL ARTISTS	10221601	367	421	14.71	9	8	17
TOTALS		919	1070	16.43	25	18	43

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: COMMERCIAL ART
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0140

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
INTERIOR DESIGN	04.0501					10		10
COMMERCIAL ART	48.0203	20	15			13		48
GRAPHIC DESIGN	50.0402						19	19
*** TOTALS		20	15			23	19	77

There is no supplemental information available for this cluster.

N0140 Commercial Art

This cluster includes occupations involving creating designs for industrial and commercial products and interior decoration. This includes 'creating designs for a wide variety of manufactured products; designing interior decorations and planning furnishings of homes, public buildings, and other places; setting up advertising displays; and designing sets for stage, motion picture, and television productions.

Also included are occupations involved in designing and executing typographical layouts and illustrations for advertising displays and instructional manuals.

This cluster shows a slightly faster than average rate of employment growth for 1984 through 1990. A significant number of annual openings (42%) will be due to separations. Supply exceeds demand by a slight amount, but apprentices comprise a 29% share of total completers and may not actually enter these occupations.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: COMMERCIAL PHOTOGRAPHY
DELAWARE DEPARTMENT OF LABOR DELAWARE CLUSTER # 0150

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
PHOTOGRAPHERS	10221805	73	91	24.66	3	1	4
OTHER PHOTO PROCESS WORKER	61084400	70	93	32.86	4	0	4
SCREEN MAKERS, PHOTOGRAPHIC	61088402	5	6	20.00	0	0	0
TOTALS		148	190	28.38	7	1	8

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

(01) STATE OF DELAWARE
CLUSTER TITLE: COMMERCIAL PHOTOGRAPHY
PROGRAM COMPLETIONS DELAWARE CLUSTER # 0150

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
COMMERCIAL PHOTOGRAPHY	48.0204	6						6
*** TOTALS		6						6

There is no supplemental information available for this cluster.

N0150 Commercial Photography

This cluster includes occupations that involve the development, theories, processes, and techniques of photographic images as a means of artistic expression.

Employment in this small cluster is projected to grow at a much faster rate than total employment for the 1984-1990 period. More than than fifty percent of the employment in this cluster is expected to be in the business services industry. Supply and demand are relatively balanced for this cluster.

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM

D E M A N D R E P O R T

[0] STATE OF DELAWARE

CLUSTER TITLE: PRINTING & GRAPHIC ART

DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0160

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
PROOFREADERS, COMPOSED COP	40064410	25	26	4.00	0	2	2
SETTERS, BINDERY MACHINES	50100202	5	5	0.00	0	0	0
BOOKBINDERS, MACHINE	50100205	24	27	12.50	1	2	3
BINDERY WORKERS, ASSEMBLY	50100206	122	118	-3.28	-1	3	2
ALL OTHER BINDERY WORKERS	50100208	33	29	-12.12	-1	1	0
COMPOSITORS &/OR TYPESETTE	50100400	253	268	5.93	2	1	3
STRIPPERS PRINTING	50101001	27	35	29.63	1	1	2
CAMERA OPERATORS, PRINTING	50101002	49	58	18.37	2	1	3
PHOTOENGRAVERS	50101003	22	23	4.55	0	0	0
PRESS OPERATORS, PLATE PRIN	50101201	54	66	22.22	2	2	4
OFFSET LITHOGRAPHIC PRESS	50101202	165	197	19.39	5	5	10
PLATEMAKERS	50101203	21	48	128.57	5	1	6
LETTER PRESS OPERATORS	50101207	58	57	-1.72	0	2	2
LETTERSET PRESS OPERATORS	50101208	28	29	3.57	0	1	1
SCREEN/STENCIL PRINTERS/SE	61088401	9	4	-55.56	-1	0	-1
PRINTER-SLOTTER FEEDERS	61089042	11	12	9.09	0	0	0
PRESS ASSISTANTS & FEEDERS	61089095	48	50	4.17	0	1	1
TOTALS		954	1052	10.27	15	23	38

11/26/85

DELAWARE OCCUPATIONAL INFORMATION SYSTEM

S U P P L Y R E P O R T

[0] STATE OF DELAWARE

CLUSTER TITLE: PRINTING & GRAPHIC ART

PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0160

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
GRAPHIC AND PRINTING C	48.0201	7	20	3		10		40
PRINTING PRESS OPERATI	48.0208				1			1
*** TOTALS		7	20	3	1	10		41

11/26/85

DELAWARE OCCUPATIONAL INFORMATION SYSTEM

SUPPLEMENTAL INFORMATION

[O] STATE OF DELAWARE DELAWARE DEPARTMENT OF LABOR

CLUSTER TITLE: PRINTING & GRAPHIC ART DELAWARE CLUSTER # 0160

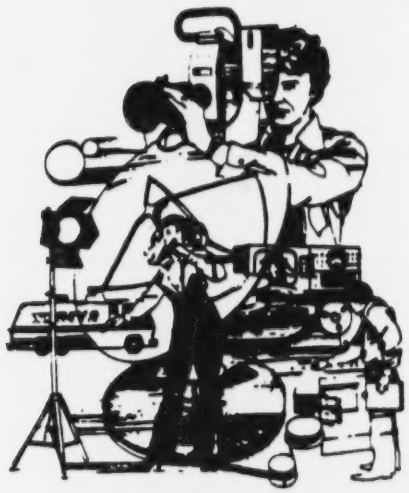
DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
209.387-030	PROOFREADER	5	0	--
556.685-066	PRESS TENDER	1	0	--
617.685-026	POWER-PRESS TENDER	1	0	--
650.582-014	MONOTYPE - KEYBOARD OPERA	1	0	--
651.362-030	WEB-PRESS OPERATOR	2	0	--
971.381-050	STRIPPER	1	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0160

N0160 Printing and Graphic Arts

This cluster includes occupations that involve all phases of hot-type, cold-type, and computer type setting including typographical layout, composition, press work, binding, lithography, photoengraving, and other graphic arts related to the printing industry.

Employment growth in this cluster is projected to be slightly below average for the period. Growth in this cluster is directly attributable to nearly an eight percent growth in the printing and publishing industries. Openings due to separations will exceed those due to growth. The supply of workers compared to demand is in balance.



V. COMMUNICATIONS

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: LITERARY SERVICES
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0170

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
WRITERS & EDITORS	10221201	174	191	9.77	3	5	8
REPORTERS & CORRESPONDENTS	10221203	122	135	10.66	2	3	5
TOTALS		296	326	10.14	5	8	13

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: LITERARY SERVICES
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0170

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
COMMUNICATIONS, GENERA	09.0101	2					79	81
JOURNALISM	09.0401						30	30
COMMUNICATIONS, OTHER	09.9999						5	5
ENGLISH, GENERAL	23.0101						66	66
TECHNICAL REPORT WRITI	23.1101			2			18	30
LETTERS, ENGLISH, FILM	23.9999						3	3
*** TOTALS		2		2			201	205

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION
DELAWARE DEPARTMENT OF LABOR

[0] STATE OF DELAWARE
CLUSTER TITLE: LITERARY SERVICES — DELAWARE CLUSTER # 0170

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
131.267-026	WRITER, TECHNICAL PUBLICA	1	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0170

N0170 Literary Services

This cluster includes occupations concerned with editing and reporting news items and features, writing publicity articles and press releases. Writers of technical manuals and similar materials are included in this cluster.

Employment growth in this cluster is projected to be below the average for all occupations during the 1984-1990 span. Average annual separations are expected to represent the majority of total openings. Supply far exceeds demand and employment opportunities for higher education completers must be found in other, related clusters or in out-of-state job markets.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: RADIO & TV PRODUCTION
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0180

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
BROADCAST TECHNICIANS	10080808	12	9	-25.00	-1	0	-1
TELEVISION CAMERA OPERATOR	10221802	7	7	0.00	0	0	0
ANNOUNCERS	10222201	123	123	0.00	0	0	0
BROADCAST NEWS ANALYSTS	10222202	20	25	25.00	1	0	1
TOTALS		162	164	1.23	0	0	0

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLY REPORT

(O) STATE OF DELAWARE
CLUSTER TITLE: RADIO & TV PRODUCTION
PROGRAM COMPLETIONS DELAWARE CLUSTER # 0180

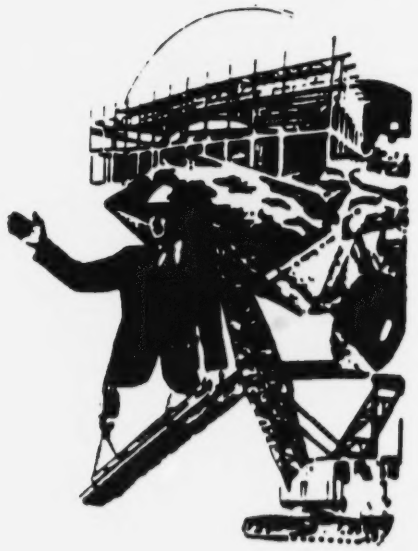
- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
RADIO & TELEVISION PRO	10.0104	33	22					55
*** TOTALS		33	22					55

There is no supplemental information available for this cluster.

NO180 Radio and TV Production

This cluster includes occupations concerned with announcing radio and television news, commercials and station identification. Occupations stressing specialized, practical knowledge related to the mechnical, scientific, or technical aspects of communications are also included.

Employment growth in this cluster is expected to be well below average. The broadcast industry is relatively small in Delaware while neighboring regional centers provide greater employment opportunities. Supply greatly exceeds demand thus encouraging out-migration of radio and tv completers.



VI. CONSTRUCTION & SPECIAL TRADES

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[01] STATE OF DELAWARE
CLUSTER TITLE: BRICK, BLOCK, & STONEMASONRY
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0130

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
BRICK/BLOCKLAYERS	50020601	565	655	15.93	15	9	24
STONE MASONS	50020602	47	49	4.26	0	1	1
REFRACTORY MATERIALS REPAI	50020606	18	19	5.56	0	0	0
CEMENT MASONS	50021201	336	360	7.14	4	9	13
CONCRETE RUBBERS	50021203	7	7	0.00	0	0	0
TILE SETTERS	50024001	28	31	10.71	1	0	1
TOTALS		1001	1121	11.99	20	19	39

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[01] STATE OF DELAWARE
CLUSTER TITLE: BRICK, BLOCK, & STONEMASONRY
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0130

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
BRICK, BLOCK, AND STON	46.0102	36	14			23		73
*** TOTALS		36	14			23		73

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION
DELAWARE DEPARTMENT OF LABOR

[01] STATE OF DELAWARE
CLUSTER TITLE: BRICK, BLOCK, & STONEMASONRY DELAWARE CLUSTER # 0190

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
844.364-010	CEMENT MASON	4	0	--
861.381-018	BRICKLAYER	5	8	0.6

NARRATIVE ANALYSIS FOR CLUSTER 0190

N0190 Brick, Block, and Stonemasonry

This cluster includes occupations that lay brick, concrete block, hard tile, marble and related materials, using trowels, levels, hammers, chisels, and other hand tools.

This cluster reflects a slightly lower growth rate than total employment for the period. Brick-block layers and cement masons are the largest occupations in this cluster. Job openings are equally distributed between those due to growth and separation. The supply exceeds demand by a considerable margin. Apprentice programs account for nearly one-third of all completers. Experience indicates that apprentice completers are highly mobile and may not continue in the occupations for which they are trained.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[01] STATE OF DELAWARE
CLUSTER TITLE: CARPENTRY & RELATED
DELAWARE DEPARTMENT OF LABOR DELAWARE CLUSTER # 0200

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
CARPENTERS	50020201	2883	2984	3.50	17	101	118
ROOFERS	50023600	359	384	6.96	4	6	10
CEILING TILE INSTALLRS,FLR	50024002	50	54	8.00	1	1	2
DRY WALL APPLICATORS	61082001	227	245	7.93	3	2	5
LATHERS	61082002	37	22	-40.54	-3	0	-3
TAPERS	61082003	128	139	8.59	2	1	3
TOTALS		3684	3828	3.91	24	111	135

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: CARPENTRY & RELATED
PROGRAM COMPLETIONS

DELAWARE CLUSTER # 0200

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP-RENT	HIGHER EDUC	TOTAL COMP
CARPENTRY	46.0201	63	38		37	235		373
*** TOTALS		63	38		37	235		373

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[O] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: CARPENTRY & RELATED — DELAWARE CLUSTER # 0200

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
842.664-010	TAPER	2	0	--
860.281-010	CARPENTER, MAINTENANCE	4	5	0.8
860.381-022	CARPENTER	73	47	1.6
866.381-010	ROOFER	16	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0200

N0200 Carpentry and Related

This cluster includes occupations that lay out, fabricate, erect, install, and repair wooden structures and fixtures using hand and power tools with knowledge of framing, construction materials, estimating, and blueprint reading.

Employment growth for this cluster reflects a much slower growth rate than the average for all occupations during the period. This trend is indicative of a slower than average growth rate for the construction sector. Annual average separations will account for 80% of total openings. Supply exceeds demand by a considerable amount. Apprentice completers comprise 63% of total supply and many may not continue in the occupations for which they are trained. Supplemental data reveal 95 applicants compared to 52 openings for the current period, reinforcing the long-term outlook.

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM

D E M A N D R E P O R T

[O] STATE OF DELAWARE

CLUSTER TITLE: ELECTRICAL SERVICES

DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0210

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
ELECTRICIANS	50021401	2056	2202	7.10	24	39	63
ELECTRIC METER INSTALLERS,	50082002	14	13	-7.14	0	0	0
ELECTRIC MOTOR REPAIRERS	50083204	26	29	11.54	1	1	2
PROTECTIVE SIGNAL INST/REP	50083220	76	100	31.58	4	1	5
INSTALLERS, REPAIRERS, TEL	50121001	112	127	13.39	3	1	4
STATION INSTALLERS	50121003	98	112	14.29	2	1	3
FRAME WIRERS	50121009	18	19	5.56	0	0	0
CENTRAL OFFICE REPAIRERS	50121010	126	102	-19.05	-4	1	-3
TOTALS		2526	2704	7.05	30	44	74

11/26/85

DELAWARE OCCUPATIONAL INFORMATION SYSTEM

S U P P L Y R E P O R T

[O] STATE OF DELAWARE

CLUSTER TITLE: ELECTRICAL SERVICES

PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0210

- PROGRAM - TITLE	CIP CODE	PRI/PUB VOTECH SECOND	SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
ELECTRICAL AND POWER T	46.0301				21	41		62
ELECTRICAL MAINTENANCE	46.0302	29	37		1	350		417
ELECTRICAL CONSTRUCTIO	46.0399					19		19
MOTOR REPAIR	47.0107					1		1
*** TOTALS		29	37		22	411		499

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11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: ELECTRICAL SERVICES — DELAWARE CLUSTER # 0210

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
721.281-018	ELECTRIC-MOTOR REPAIRER	1	0	--
824.261-010	ELECTRICIAN	28	35	0.8
825.281-018	ELECTRICIAN, AIRPLANE	2	1	2.0
829.281-014	ELECTRICAL REPAIRER	5	2	2.5

NARRATIVE ANALYSIS FOR CLUSTER 0210

N0210 Electrical Services

This cluster includes occupations that install, operate, maintain, and repair residential, commercial, and industrial electrical systems.

Employment for this cluster is growing at a much slower rate than the overall average. Electricians account for over eighty percent of the cluster employment. Annual openings due to separations account for the largest portion of total openings. Supply far exceeds demand and, as in the previous carpentry cluster, a sizable apprentice program accounts for most of the labor supply. Current supplemental data indicate a more balanced demand-supply relationship.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: HEAVY CONSTRUCTION & MINING
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0320

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
CONCRETE MIXER OPERATORS	50021802	10	15	50.00	1	0	1
FORM TAMPER OPERATORS,ETC	50021806	6	6	0.00	0	0	0
HEAVY EQUIPMENT OPERATORS	50021807	901	933	3.55	5	19	24
BATCH PLANT OPERATORS	50021809	24	30	25.00	1	1	2
BALLAST CLEAN MACH OPERATO	50021810	25	25	0.00	0	1	1
STRUCTURAL STEEL WORKERS	50023800	271	291	7.38	3	7	10
ENGINEERING EQUIPMT MECHAN	50081803	141	147	4.26	1	3	4
CRANE, DERRICK, & HOIST OP	50140801	285	305	7.02	3	6	9
LOADER ENGINEERS	50140802	7	8	14.29	0	0	0
MILL &/OR GRINDER OPS,MINE	61083646	13	17	30.77	1	0	1
COMPOUNDERS	61083818	13	12	-7.69	0	0	0
OILERS	61084000	59	62	5.08	1	2	3
AIR HAMMER OPERATORS	80000601	15	15	0.00	0	0	0
FORM SETTERS,METAL ROAD FO	80000603	11	11	0.00	0	0	0
HIGHWAY MAINTENANCE WORKER	80000628	171	152	-11.11	-3	4	1
ASPHALT RAKERS	80000629	78	83	6.41	1	2	3
TOTALS		2030	2112	4.04	14	45	59

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: HEAVY CONSTRUCTION & MINING
PROGRAM COMPLETIONS DELAWARE CLUSTER # 0330

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP-RENT	HIGHER EDUC	TOTAL COMP
CONSTRUCTION EQUIPMENT	49.0202				9	9	27	45
*** TOTALS					9	9	27	45

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[O] STATE OF DELAWARE DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: HEAVY CONSTRUCTION & MINING DELAWARE CLUSTER # 0220

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
850.683-010	BULLDOZER OPERATOR 1	1	1	1.0
859.683-010	OPERATING ENGINEER	25	2	12.5
921.663-010	BRIDGE-OR-GANTRY-CRANE OP	5	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0220

N0220 Heavy Construction and Mining

This cluster includes occupations that operate heavy duty equipment such as bulldozers, cranes, graders, tractors, trailers, mixers, crawler-mounted shovels, draglines, and compressors.

Employment in this relatively large cluster is expected to grow at a relatively low rate. Average annual openings due to separations account for more than three-fourths of total openings. Demand exceeds supply by a small amount for this cluster and apprentice program completers represent a far smaller portion of total supply than in other construction industry trades. Supplemental data which reflect Job Service information for the current period are inconsistant with long term projections and should be interpreted with care.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: PLUMBERS & PIPEFITTERS
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0230

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
PLUMBERS &/OR PIPEFITTERS	50023203	1701	1792	5.35	15	53	68
WATER METER INSTALLERS	50082009	13	13	0.00	0	0	0
TOTALS		1714	1805	5.31	15	53	68

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: PLUMBERS & PIPEFITTERS
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0230

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
PLUMBING AND PIPEFITTI	46.0501	12	25			52		89
PIPEFITTING AND STEAMF	46.0502				33	51		84
PLUMBING	46.0503				4	140		144
*** TOTALS		12	25		37	243		317

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11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[O] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: PLUMBERS & PIPEFITTERS — DELAWARE CLUSTER # 0230

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
862.261-010	PIPE FITTER	6	0	--
862.381-018	PIPE FITTER	25	8	3.1
862.381-030	PLUMBER	17	7	2.4
862.381-034	PLUMBER APPRENTICE	5	0	--
863.381-014	PIPE COVERER & INSULATOR	1	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0230

N0230 Plumbers and Pipefitters

This cluster includes occupations that layout, assemble, install, and maintain piping, fixtures, and piping systems for steam, hot water, heating, cooling, drainage, lubricating, sprinkling, and industrial processing systems. Includes selection and use of tools to cut, bend, join, and weld pipes.

Employment in this cluster is expected to grow at a considerably slower rate than for total employment. As in the other construction related clusters, openings due to annual separations account for the majority of total openings. Supply far exceeds demand. The apprentice programs account for more than 75% of total cluster supply and not all completers are expected to enter program related occupations. Applicants far exceed job openings in the supplementae data.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: OTHER CONSTRUCTION
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0240

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
COST ESTIMATORS	10243808	278	286	2.88	1	9	10
CONSTRUCTION INSPECTORS	20040400	89	88	-1.12	0	2	2
FLOOR SANDING MACHINE OPER	50022000	98	73	-25.51	-4	2	-2
PAINTERS, MAINTENANCE	50022200	1383	1502	8.60	20	54	74
PAPERHANGERS	50022600	42	50	19.05	1	7	8
PLASTERERS	50022801	86	69	-19.77	-3	2	-1
MILLWRIGHTS	50061600	442	440	-.45	0	10	10
CARPET CUTTERS, CARPET LAY	50140600	167	180	7.78	2	3	5
GLAZIERS	50141802	91	100	9.89	2	1	3
ASBESTOS & INSULATION WORK	61080200	230	254	10.43	4	6	10
FENCE ERECTORS	80000607	29	32	10.34	1	1	2
PIPELAYERS	80000609	115	119	3.48	1	3	4
REINFORCING-IRON WORKERS	80000610	108	110	1.85	0	2	2
HELPERS, TRADES	80002823	2371	2476	4.43	18	20	38
TOTALS ·		5529	5779	4.52	43	122	165

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: OTHER CONSTRUCTION
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0240

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP-RENT	HIGHER EDUC	TOTAL COMP
CONSTRUCTION SUPERVISI	06.2001					40		40
ASBESTOS INSTALLATION	46.0407				1	11		12
PAINTING AND DECORATIO	46.0408				2	18		20
PLASTERING	46.0409				1			1
MISCELLANEOUS CONSTRUC	46.0499				3			3
CONSTRUCTION TRADES, O	46.9999	4	5				2	11
*** TOTALS		4	5		7	69	2	87

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[O] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: OTHER CONSTRUCTION — DELAWARE CLUSTER # 0240

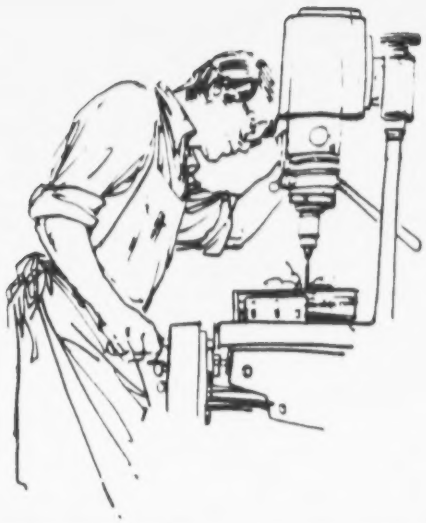
DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
160.267-018	ESTIMATOR	5	1	5.0
182.267-010	CONSTRUCTION INSPECTOR	3	0	--
638.281-018	MILLWRIGHT	13	0	--
809.381-022	ORNAMENTAL-IRON WORKER (C	1	0	--
840.381-010	PAINTER	56	26	2.2
842.361-018	PLASTERER	1	4	0.3
864.381-010	CARPET LAYER	3	0	--
865.381-010	GLAZIER	1	0	--
869.664-014	CONSTRUCTION WORKER 1	210	129	1.6
869.687-026	CONSTRUCTION WORKER 2	112	47	2.4
899.684-022	MAINTENANCE-REPAIRER HELP	3	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0240

N0240 Other Construction

This cluster includes those occupations not previously described in the Construction and Special Trades cluster.

This cluster reflects a slower than average rate of employment growth for the 1984-1990 period. Trades helpers and maintenance painters account for two-thirds of this cluster's 1984 employment. Annual average job openings due to separation account for nearly 75% of total openings. Occupational demand far exceeds supply for this cluster as on-the-job training may be appropriate for several of these occupations. Supplemental information indicates that the number of Job Service applicants currently exceed Job Service openings by a two-to-one ratio.



VII. CRAFTWORKERS

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: CRAFTWORKERS, SKILLED, ALL OTHERS
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0250

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
SUPERVISORS, NONWORKING	50040003	3910	4089	4.58	30	98	128
INSPECTORS	50142202	1333	1551	16.35	36	43	79
TESTERS	50142205	342	336	-1.75	-1	10	9
GLASS BLOWERS	50144803	6	7	16.67	0	0	0
MACHINE SETTERS, PAPER GOO	50144819	16	17	6.25	0	0	0
ALL OTHER SKILLED CRAFTWOR	50144899	1725	1862	7.94	24	50	74
TOTALS		7332	7862	7.23	89	301	290

There is no institutional supply data available for this cluster

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: CRAFTWORKERS, SKILLED, ALL OTHERS DELAWARE CLUSTER # 0250

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
168.267-058	INSPECTOR, MOTOR VEHICLES	1	0	--
619.381-010	INSPECTOR	0	0	--
759.584-010	RUBBER-GOODS INSPECTOR-TE	4	3	1.3

NARRATIVE ANALYSIS FOR CLUSTER 0250

N0250 Craftworkers

This cluster includes those occupations requiring a high degree of precision concerned with creating, inspecting, testing, examining and sampling of raw materials or processed, machined, fabricated, or assembled products.

Employment growth for this cluster is expected to be slower than average for total occupations. Nonworking supervisors account for nearly half of the total employment. This occupation is growing at an even slower rate than the cluster as a whole. Inspectors comprise a relatively large portion of the group, about 18%, and are growing at a faster than average rate. Annual openings due to separations account for two-thirds of total openings. No identifiable institutional supply is indicated for this cluster.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: JEWELRY OCCUPATIONS
DELAWARE DEPARTMENT OF LABOR DELAWARE CLUSTER # 0260

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
JEWELERS &/OR SILVERSMITHS	50142401	44	55	25.00	1	6	8
WATCHMAKERS	50142402	18	18	0.00	0	2	2
TOTALS		62	73	17.74	1	8	10

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: JEWELRY OCCUPATIONS
PROGRAM COMPLETIONS DELAWARE CLUSTER # 0260

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
JEWELRY	48.0602					1		1
*** TOTALS						1		1

There is no supplemental information available for this cluster.

N0260 Jewelry Occupations

This cluster includes occupations involving precision casting and modeling of molds, casting metal and molds, shaping metals, and setting stones for watches, items of jewelry and sliverware, often using handtools.

This small cluster shows slightly above average growth. Average annual openings due to separations represent 80 percent of total openings. A very small number of completers from institutional supply are listed. On the job training is the normal method filling demand for these positions.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: WOODWORKING OCCUPATIONS
DELAWARE DEPARTMENT OF LABOR DELAWARE CLUSTER # 0270

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
CABINETMAKERS	50140400	155	177	14.19	4	11	15
FURNITURE FINISHERS	50141400	37	38	2.70	0	2	2
WOOD MACHINISTS	61021404	59	69	16.95	2	1	3
NAILING MACHINE OPERATORS	61084602	9	10	11.11	0	0	0
RIPSAW OPERATORS	61085012	10	12	20.00	0	0	0
FURNITURE ASSEMBLERS & INS	62000802	14	15	7.14	0	0	0
TOTALS		284	321	13.03	6	14	20

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: WOODWORKING OCCUPATIONS
PROGRAM COMPLETIONS DELAWARE CLUSTER # 0270

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP-RENT	HIGHER EDUC	TOTAL COMP
MILLWORK AND CABINET M	48.0703	8				50		58
*** TOTALS		8				50		58

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: WOODWORKING OCCUPATIONS DELAWARE CLUSTER # 0270

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
660.280-010	CABINETMAKER	2	1	2.0
795.687-014	GLUER	6	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0270

N0270 Woodworking Occupations

This cluster includes occupations concerned with precision cutting of, shaping of, and assembling parts of complex wooden products, according to specifications, blueprints, drawings, or samples, and using a variety of machines and handtools.

This small cluster shows about average growth for the 1984-1990 period. Cabinetmaker is the dominant occupation in this cluster, comprising more than half of the cluster's employment. Twice as many openings are expected due to separation as compared to those due to growth. Supply far exceeds demand. Apprentice completers comprise 86 percent of total supply.

11/26/85

DELAWARE OCCUPATIONAL INFORMATION SYSTEM

D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: UPHOLSTERERS
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0280

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
FURNITURE UPHOLSTERERS	50144601	150	156	4.00	1	3	4
TOTALS		150	156	4.00	1	3	4

11/26/85

DELAWARE OCCUPATIONAL INFORMATION SYSTEM

S U P P L Y R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: UPHOLSTERERS
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0280

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
UPHOLSTERY	48.0303					22		22
*** TOTALS						22		22

11/26/85

DELAWARE OCCUPATIONAL INFORMATION SYSTEM

SUPPLEMENTAL INFORMATION

[O] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: UPHOLSTERERS — DELAWARE CLUSTER # 0280

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
780.381-018	FURNITURE UPHOLSTERER	0	1	0.0
780.681-010	UPHOLSTERER, INSIDE	0	1	0.0

NARRATIVE ANALYSIS FOR CLUSTER 0280

N0280 Upholsterers

This cluster includes occupations that fabricate and repair all types of upholstered goods.

This small cluster exhibits slower than average employment growth for the six year span. Very few annual job openings are anticipated. Supply far exceeds demand. Apprentice completers comprise 100 percent of total supply.

VIII. ENGINEERING & DRAFTING

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: ARCHITECTS
DELAWARE DEPARTMENT OF LABOR

DELAWARE CLUSTER # 0290

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
ARCHITECTS	10240400	117	157	34.19	7	4	11
TOTALS		117	157	34.19	7	4	11

There is no institutional supply or supplemental information available for this cluster.

#0290 Architects

This cluster includes occupations that plan, design, and oversee construction of residences, office building, theatres, factories, and other structures and/or plan and develop land areas for such facilities such as parks, airports, highways, hospitals, and schools.

This small cluster exhibits substantially above average growth. Most of the annual average openings will be due to growth. In Delaware there is no identifiable institutional supply source.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: ENGINEER, CHEMICAL
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0300

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
CHEMICAL ENGINEERS	10020400	1572	1901	20.93	55	23	78
TOTALS		1572	1901	20.93	55	23	78

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: ENGINEER, CHEMICAL
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0300

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
CHEMICAL ENGINEERS	14.0701						91	91
*** TOTALS							91	91

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: ENGINEER, CHEMICAL — DELAWARE CLUSTER # 0300

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
008.061-018	CHEMICAL ENGINEER	2	1	2.0

NARRATIVE ANALYSIS FOR CLUSTER 0300

N0300 Chemical Engineers

This cluster includes occupations which develop new and improved chemical manufacturing processes for chemicals and related products such as gasoline, synthetic rubber, plastics, detergents, and cement and paper pulp. Included also is the design and production of industrial plants carrying out chemical processes.

Employment in this cluster is relatively large and is projected to grow at a faster rate than for all occupations. Average annual openings are expected to be substantial during the six year projection period. Most of the these openings are attributable to new job growth. The supply-demand relationship is relatively balanced (91 completers versus 78 job openings).

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: ENGINEER, CIVIL
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0305

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
CIVIL ENGINEER	10020600	453	467	3.09	2	17	19
TOTALS		453	467	3.09	2	17	19

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: ENGINEER, CIVIL
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0305

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
CIVIL ENGINEERING	14.0801						65	65
*** TOTALS							65	65

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: ENGINEER, CIVIL — DELAWARE CLUSTER # 0305

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
005.061-014	CIVIL ENGINEER	4	1	4.0

NARRATIVE ANALYSIS FOR CLUSTER 0305

N0305 Civil Engineers

This cluster includes occupations which plan, design, and oversee construction and maintenance of stationary structures and facilities. It includes conducting research and advising on engineering problems, designing projects and structures such as bridges, dams, roads, railroads, irrigation projects, pipelines, water and sewage systems, and waste disposal systems.

This relatively small cluster is growing well below the average for all Delaware occupations. Most of the average annual job openings will be due to separations from the labor force. Supply far exceeds demand in Delaware.

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM

D E M A N D R E P O R T

[0] STATE OF DELAWARE

CLUSTER TITLE: CIVIL TECHNOLOGY

DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0310

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
SURVEYORS	10081600	132	138	4.55	1	3	4
CIVIL ENGINEERING TECHNICI	10081816	226	238	5.31	2	4	6
SURVEYOR HELPERS	61081000	131	146	11.45	3	0	3
TOTALS		489	522	6.75	6	7	13

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM

S U P P L Y R E P O R T

[0] STATE OF DELAWARE

CLUSTER TITLE: CIVIL TECHNOLOGY

PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0310

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
CIVIL TECHNOLOGY	15.0201						9	9
*** TOTALS							9	9

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM

SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR

CLUSTER TITLE: CIVIL TECHNOLOGY — DELAWARE CLUSTER # 0310

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
018.167-010	CHIEF OF PARTY (SURVEY)	1	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0310

N0310 Civil Technology

This cluster includes occupations that support and assist civil engineers and urban planners stressing mathematical, scientific, or technical aspects. Includes survey of land areas to determine and identify the shape, contour, location, and dimensions of land or land features for construction, mapmaking, land valuation, mining, or other purposes.

This cluster reflects a slower than average growth rate for the 1984-1990 period. Annual openings due to growth and resulting from separation are relatively balanced for this cluster. Supply is slightly lower than demand, though on the job training is probably adequate to fill this gap.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: DRAFTING
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0320

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
DRAFTERS	10080601	1360	1406	3.38	8	0	8
ESTIMATORS & DRAFTERS,UTIL	10080602	20	19	-5.00	0	0	0
TOTALS		1380	1425	3.26	8	0	8

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: DRAFTING
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0320

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
ARCHITECTURAL DESIGN &	15.0101						27	27
ARCHITECTURAL INTERIOR	15.0102						3	3
DRAFTING AND DESIGN TE	15.0202						11	11
DRAFTING, GENERAL	48.0101	22	33					55
*** TOTALS		22	33				41	96

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: DRAFTING — DELAWARE CLUSTER # 0320

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
001.261-010	DRAFTER, ARCHITECTURAL	1	0	--
003.281-010	DRAFTER, ELECTRICAL	0	0	--
003.281-014	DRAFTER, ELECTRONIC	1	0	--
005.281-010	DRAFTER, CIVIL	0	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0320

N0320 Drafting

This cluster includes occupations preparing clear, complete, and accurate working plans and detailed drawings from rough or detailed sketches or notes for engineering or manufacturing purposes, according to specified dimensions.

This cluster is projected to have a relatively slow rate of employment growth for the 1984-1990 period. Changing technology, for example the increasing use of computer-aided design equipment, is expected to increase individual productivity and therefore reduce employment demand pressures. The completers from any of three sources noted in the supply report for this cluster far exceed demand.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[01] STATE OF DELAWARE
CLUSTER TITLE: ENGINEER, ELECTRICAL
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0330

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
ELECTRICAL ENGINEERS	10020800	798	879	10.15	14	19	33
TOTALS		798	879	10.15	14	19	33

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[01] STATE OF DELAWARE
CLUSTER TITLE: ENGINEER, ELECTRICAL
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0330

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
ELECTRICAL ENGINEERING	14.1001						82	82
*** TOTALS							82	82

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[01] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: ENGINEER, ELECTRICAL — DELAWARE CLUSTER # 0330

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
003.061-010	ELECTRICAL ENGINEER	1	3	0.3

NARRATIVE ANALYSIS FOR CLUSTER 0330

N0330 Electrical Engineers

This cluster includes occupations which design, plan, and oversee the manufacture, construction, installation, operation, and maintenance of electric or electronic components, equipment, systems, facilities, and machinery. It includes conducting research and development concerned with design and manufacture of semiconductor and other solid state devices, and electronic equipment and their application to commercial, industrial, military, scientific, and medical equipment, processes, and problems.

This cluster is projected to grow at a rate slightly below the average for all occupations. Openings due to annual separations slightly exceed annual openings due to growth. Supply for this cluster greatly exceeds demand. Completers in this cluster are expected to move into regional and national markets.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: ENGINEER, MECHANICAL
DELAWARE DEPARTMENT OF LABOR

DELAWARE CLUSTER # 0340

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
MECHANICAL ENGINEERS	10021200	1356	1354	-.15	0	38	38
TOTALS		1356	1354	-.14	0	38	38

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: ENGINEER, MECHANICAL
PROGRAM COMPLETIONS

DELAWARE CLUSTER # 0340

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
MECHANICAL ENGINEERING	14.1901						30	30
*** TOTALS							30	30

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[O] STATE OF DELAWARE
DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: ENGINEER, MECHANICAL
DELAWARE CLUSTER # 0340

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
007.061-014	MECHANICAL ENGINEER	6	2	3.0

NARRATIVE ANALYSIS FOR CLUSTER 0340

N0340 Mechanical Engineers

This cluster includes occupations involving the application of the principles of physics and engineering in the planning and design of tools, engines, machines, and other mechanically functioning equipment; and overseeing installation, operation, maintenance, and repair of such equipment.

Employment in this cluster is expected to show no growth during the 1984-1990 period. There will, however, be job openings due to annual separations from the labor force. Supply for this cluster far exceeds demand.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: MECHANICAL TECHNOLOGY
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0350

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
MECHAN ENGINEERING TECHNIC	10081400	98	128	30.61	5	2	7
TOTALS		98	128	30.61	5	2	7

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: MECHANICAL TECHNOLOGY
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0350

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
MECHANICAL DESIGN TECH	15.0805						35	35
*** TOTALS							35	35

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION
[O] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: MECHANICAL TECHNOLOGY — DELAWARE CLUSTER # 0350

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
007.161-026	MECHANICAL-ENGINEERING TE	1	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0350

N0350 Mechanical Technology

This cluster includes occupations involving the development and testing of machinery and equipment under direction of engineering staff and physical scientists, utilizing theory and principles of mechanical engineering.

This relatively small cluster is expected to grow at a rate substantially above the average occupational growth rate for the period. Average annual openings are small in number and are expected to come primarily from openings due to growth. Supply for this cluster exceeds demand by a large margin.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[01] STATE OF DELAWARE
CLUSTER TITLE: ENGINEER, OTHER
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0360

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL GROWTH	OPS - SEP.	OPS - TOTAL
INDUSTRIAL ENGINEERS	10021000	394	397	0.76	1	4	5
METALLURGISTS & MET ENGINE	10021400	8	9	12.50	0	0	0
ALL OTHER ENGINEERS	10022099	592	569	-3.89	-4	16	12
TOTALS		994	975	-1.90	-3	20	17

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[01] STATE OF DELAWARE
CLUSTER TITLE: ENGINEER, OTHER
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0360

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
ALL OTHER ENGINEERS	14.0301						31	31
METALLURGICAL ENGINEER	14.2001						3	3
DUAL ENGINEERING PROGR	15.9999						5	5
*** TOTALS							39	39

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION
[01] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: ENGINEER, OTHER — DELAWARE CLUSTER # 0360

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
012.167-042	MANUFACTURING ENGINEER	0	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0360

N0360 Engineers, Other

This cluster includes occupations involving the applications of the practical and theoretical aspects of engineering not elsewhere classified.

Employment for this cluster is projected to decline during the 1984-1990 period. Despite the projected employment decline, average annual openings due to separation will provide some employment opportunity in this cluster. Supply exceeds demand by a slight margin.

IX. FINANCIAL SERVICES

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: ACCOUNTANTS
DELAWARE DEPARTMENT OF LABOR

DELAWARE CLUSTER # 0370

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL GROWTH	OPS - SEP.	OPS - TOTAL
ACCOUNTANTS & AUDITORS	10240201	2718	3111	14.46	66	85	151
TOTALS		2718	3111	14.46	66	85	151

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: ACCOUNTANTS
PROGRAM COMPLETIONS

DELAWARE CLUSTER # 0370

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
ACCOUNTING	06.0201				23		466	489
*** TOTALS					23		466	489

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[01] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: ACCOUNTANTS — DELAWARE CLUSTER # 0370

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
160.162-014	AUDITOR	4	0	--
160.167-010	ACCOUNTANT	20	3	6.7

NARRATIVE ANALYSIS FOR CLUSTER 0370

N0370 Accountants

This cluster includes occupations primarily concerned with planning and administering accounting services, advising on accountancy problems, planning and conducting audits of accounts of industrial, governmental, and other organizations and private individuals.

Employment in this cluster is growing at the average rate of growth for all occupations. Although employment growth will generate many new jobs, more openings will result from the need to replace workers. Supply far exceeds demand for accountants in Delaware.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[01] STATE OF DELAWARE
CLUSTER TITLE: BOOKKEEPING & ACCOUNTING
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0380

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
TAX EXAMINERS, COLLECTORS	10240203	149	138	-7.38	-2	4	2
TAX PREPARERS	10240204	86	105	22.09	3	3	6
BOOKKEEPING/BILLING MACH O	40040201	361	434	20.22	12	12	24
PROOF MACHINE OPERATORS	40040202	158	285	80.38	21	7	28
TRANSIT CLERKS	40040203	32	58	81.25	4	1	5
ACCOUNTING CLERKS	40060601	2938	3307	12.56	62	120	182
BOOKKEEPERS, HAND	40060603	2225	2516	13.08	49	91	140
PAYROLL/TIMEKEEPING CLERKS	40064000	566	646	14.13	13	25	38
TOTALS		6515	7489	14.95	162	263	425

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: BOOKKEEPING & ACCOUNTING
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0380

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP-RENT	HIGHER EDUC	TOTAL COMP
ACCOUNTING, BOOKEEPING	07.0101	32		125	2		9	168
ACCOUNTING & COMPUTING	07.0102	225					92	317
BOOKKEEPING	07.0103	159	1					160
MACHINE BILLING, BOOKE	07.0104	49					1	50
*** TOTALS		465	1	125	2		102	695

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: BOOKKEEPING & ACCOUNTING — DELAWARE CLUSTER # 0380

DOT CODE	TITLE	JOB SERVICE APPLICANTS		TOTAL OPENINGS	RATIO AP/OPEN
210.382-010	AUDIT CLERK	1		0	--
210.382-014	BOOKKEEPER 1	49		13	3.8
210.382-018	BOOKKEEPER 2	7		4	1.8
210.382-022	BOOKKEEPING-MACHINE OPERA	0	-	0	--
214.382-014	BILLING TYPIST	1		0	--
215.482-010	PAYROLL CLERK	5		5	1.0
216.382-034	COST CLERK	2		0	--
216.482-010	ACCOUNTING CLERK	49		6	8.2
217.382-010	PROOF-MACHINE OPERATOR	5		0	--

NARRATIVE ANALYSIS FOR CLUSTER 0380

N0380 Bookkeeping and Accounting

This cluster includes occupations concerned with computing, classifying and recording numerical data to keep complete sets of financial records, including verifying the accuracy of figures, calculations, and postings pertaining to business transactions recorded by other workers.

Employment in this cluster is increasing at about the average rate of growth for all occupations. Accounting clerks and hand bookkeepers comprise almost 80% of the total employment for this cluster and are two of the largest occupational groups in the state. Several occupations in this cluster are directly related to the banking industry and show a considerably higher growth rate than the remainder of the cluster. Job openings due to separation are greater than openings due to growth for this cluster. Job openings exceeds demand by an ample margin. Supplementary data indicates a greater number of job service applicants than current openings.

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM

D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: FINANCE & CREDIT
DELAWARE DEPARTMENT OF LABOR

DELAWARE CLUSTER # 0390

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
NEW ACCOUNTS TELLERS	40060201	285	388	36.14	17	9	26
TELLERS	40060203	1077	1470	36.49	66	36	102
COLLECTORS	40061400	610	999	63.77	65	19	84
CREDIT AUTHORIZERS	40062201	65	73	12.31	1	2	3
CREDIT REPORTERS	40062211	11	16	45.45	1	0	1
BROKERAGE CLERKS	40065205	20	25	25.00	1	1	2
TRADE RECORDERS	40065207	8	11	37.50	1	0	1
MARGIN CLERKS	40065208	22	21	-4.55	0	1	1
RATERS	40065209	140	193	37.86	9	6	15
LOAN CLOSERS	40066801	57	75	31.58	3	2	5
SECURITIES CASHIERS, EXCHAN	40066814	6	9	50.00	1	0	1
PURCHASE & SALES CLERKS, SE	40066816	5	5	0.00	0	0	0
STATEMENT CLERKS	40066823	118	210	77.97	15	5	20
CREDIT CLERKS, BANK&/ORINSU	40066841	478	803	67.99	54	19	73
TOTALS		2902	4298	48.10	234	100	334

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM

S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: FINANCE & CREDIT
PROGRAM COMPLETIONS

DELAWARE CLUSTER # 0390

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
CREDIT COLLECTION CLER	07.0202						19	19
BANK TELLER	07.0205					14		14
BANK CLERK	07.0206				26			26
*** TOTALS					26	14	19	59

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11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[O] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: FINANCE & CREDIT — DELAWARE CLUSTER # 0390

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
211.362-018	TELLER	11	3	3.7
241.357-010	COLLECTION CLERK	2	11	0.2

NARRATIVE ANALYSIS FOR CLUSTER 0390

N0390 Finance and Credit

This cluster includes occupations that perform financial or banking services including credit collection, receiving and paying out money, and functions associated with processing loans.

Employment in this cluster is projected to have an extremely high growth rate when compared to the average growth rate for all occupations. This cluster is dominated by occupations associated with the banking industry. Tellers and collectors are the two largest occupations in this cluster. Average annual openings due to job growth exceed openings due to separations by greater than a two-to-one margin. Demand for this cluster exceeds supply by a considerable margin. An additional supply of workers for this cluster could be realized from cluster 380, BOOKKEEPING & ACCOUNTING. Additional training programs appear warranted.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: INSURANCE OCCUPATIONS
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0400

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
HOSPITAL INSURANCE REPRESE	10243803	8	10	25.00	0	0	0
UNDERWRITERS	10243814	139	190	36.69	9	7	16
INVESTIGATORS, INSURANCE	10243815	19	30	57.89	2	1	3
SPECIAL AGENTS, INS.	10243820	184	262	42.39	13	6	19
CLAIMS EXAMINERS, PROP/CAS	10243822	62	90	45.16	5	2	7
SALES AGENTS, SALES REP.,	30001005	923	1329	43.99	68	30	98
CLAIMS EXAMINERS, INSURANC	40062801	211	298	41.23	15	10	25
CLAIMS ADJUSTERS	40062803	193	318	64.77	21	6	27
TOTALS		1739	2527	45.31	133	62	195

There is no institutional supply data available for this cluster.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[O] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: INSURANCE OCCUPATIONS — DELAWARE CLUSTER # 0400

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
169.167-058	UNDERWRITER	3	0	--
241.217-010	CLAIM ADJUSTER	1	0	--
250.257-010	SALES AGENT, INSURANCE	4	8	0.5

NARRATIVE ANALYSIS FOR CLUSTER 0400

N0400 Insurance Occupations

This cluster includes occupations dealing with risk analysis in personal and business insurance involving applications to life, disability, property, liability, and fiduciary trust and annuity underwriting. Involves processing of claims, investigation, underwriting and marketing of these insurance products.

Employment in this cluster is projected to have an extremely high growth rate when compared to the average growth rate for all occupations. Sales agents and representatives account for over half the employment for this cluster. Average annual openings due to job growth exceed openings due to separations by a two to one margin. No identifiable supply source exists for this cluster. However, for entry level jobs most insurance companies seek college graduates who have a degree in liberal arts or business administration.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: PROF. FINANCIAL SERVICES
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0410

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
FINANCIAL ANALYSTS	10180201	57	90	57.89	6	1	7
CREDIT ANALYSTS, CHIEF	10243809	38	58	52.63	3	1	4
CREDIT ANALYSTS	10243810	135	226	67.41	15	6	21
BROKERS, FLOOR REPS	10243819	36	48	33.33	2	3	5
SALES AGENTS, SALES REP, F	30001604	125	168	34.40	7	9	16
SALES AGENTS, SALES REP, S	30001605	160	218	36.25	10	12	22
TOTALS		551	808	46.64	43	32	75

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: PROF. FINANCIAL SERVICES
PROGRAM COMPLETIONS DELAWARE CLUSTER # 0410

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP-RENT	HIGHER EDUC	TOTAL COMP
BANKING AND FINANCE	06.0301						147	147
*** TOTALS							147	147

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: PROF. FINANCIAL SERVICES DELAWARE CLUSTER # 0410

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
191.267-014	CREDIT ANALYST	0	0	--
251.357-014	SALES AGENT, FIN. REPORT	1	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0410

N0410 Professional Financial Services

This cluster includes occupations concerned with the marketing of securities and the analysis of financial risk for corporate planning or for extending credit to firms or individuals.

This is another cluster exhibiting an extremely high rate of employment growth due to its close association with the finance sector. Job openings will occur relatively equally from average annual growth and average annual separations. Supply in this cluster significantly exceeds demand.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: REAL ESTATE OCCUPATIONS
DELAWARE DEPARTMENT OF LABOR DELAWARE CLUSTER # 0420

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
TITLE EXAMINERS &/OR ABSTR	10243811	8	10	25.00	0	0	0
APPRAISERS, REAL ESTATE	10243816	30	36	20.00	1	1	2
ASSESSORS	10243817	29	29	0.00	0	1	1
BUSINESS BROKERS	30001401	5	5	0.00	0	0	0
REAL ESTATE BROKERS	30001402	45	32	-28.89	-2	2	0
SALES AGENTS, SALES REPS,	30001403	1115	952	-14.62	-27	54	27
TOTALS		1232	1064	-13.63	-28	58	30

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: REAL ESTATE OCCUPATIONS
PROGRAM COMPLETIONS

DELAWARE CLUSTER # 0420

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
REAL ESTATE, GENERAL	06.1701			2608				2608
*** TOTALS				2608				2608

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[O] STATE OF DELAWARE
DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: REAL ESTATE OCCUPATIONS
DELAWARE CLUSTER # 0420

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
250.357-018	SALES AGENT, REAL ESTATE	2	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0420

N0420 Real Estate Occupations

This cluster includes occupations concerned with buying, selling, appraising, renting, managing, and leasing of real estate property.

Employment in this cluster is projected to decline, although the current employment climate is somewhat more favorable. Average annual job openings due to separation will provide a substantial number of openings. Supply far exceeds demand. Many completers are multiple job holders and may be employed part-time, often on a commission basis.

X. FINE ARTS

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: FINE ARTS
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0430

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL GROWTH	OPS - SEP.	OPS - TOTAL
MUSEUM CURATOR	10240603	32	32	0.00	0	0	0
TOTALS		32	32	0.00	0	0	0

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: FINE ARTS
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0430

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
FINE ARTS, GENERAL	50.0701						30	30
ART CONSERVATION	50.0702						10	10
ART HISTORY & APPRECIA	50.0703						10	10
*** TOTALS							50	50

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[O] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: FINE ARTS — DELAWARE CLUSTER # 0430

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
740.684-014	DECORATOR	1	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0430

N0430 Curator/Museum Services

This cluster includes occupations concerned with appraising and directing safekeeping of historically valuable documents, artifacts, and art objects and participating in research activities based on exhibits of historical and scientific interest; and administering affairs of museums.

Employment in this very small cluster is not expected to change. Supply far exceeds demand. Completers in this cluster are expected to find employment in other related occupational areas.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: PERFORMING ARTS
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0440

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
ACTORS OR ACTRESSES	10220200	9	12	33.33	1	0	1
MUSICIANS, INSTRUMENTAL	10221404	110	141	28.18	5	4	9
TOTALS		119	153	28.57	6	4	10

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: PERFORMING ARTS
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0440

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
DRAMATIC ARTS	50.0501						5	5
MUSIC, GENERAL	50.0901						8	8
MUSIC PERFORMANCE	50.0903						1	1
*** TOTALS							14	14

There is no supplemental information available for this cluster.

N0440 Performing Arts

This cluster includes occupations which provide live performance through human expression modalities, including music, dance, and theatre.

This cluster's employment is growing at a slightly faster than average rate. Musicians comprise the majority of those employed in this small cluster. Supply is sufficient to meet demand.

XI. FOOD SERVICE & PRODUCTION

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: BAKING
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0450

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL GROWTH	OPS - SEP.	OPS - TOTAL
BAKERS	50140202	52	63	21.15	2	2	4
DOUGHNUT MKRS/DOUGHNUT MAC	61086258	43	69	60.47	4	1	5
BAKER HELPERS	61089003	65	71	9.23	1	2	3
BAKERS, BREAD &/OR PASTRY	70040200	92	113	22.83	4	3	7
TOTALS		252	316	25.40	11	8	19

There is no institutional supply data available for this cluster

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[O] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: BAKING — DELAWARE CLUSTER # 0450

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
313.381-010	BAKER	3	0	--
313.684-010	BAKER HELPER	1	0	--
526.381-010	BAKER	3	0	--
526.684-010	DOUGHNUT MAKER	2	1	2.0
526.686-010	BAKER HELPER	5	0	--
929.686-010	BAKERY WORKER	5	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0450

NO450 Baking

This cluster includes occupations which prepare and bake bread, rolls, muffins, biscuits, cakes, cookies, pies, and puddings according to recipe by measuring and mixing ingredients, shaping and molding dough into desired shapes, and placing pans of dough in the oven.

Occupations in this cluster are growing considerably faster than total employment for the 1984-1990 period. Openings due to growth are expected to exceed those due to separation by a slight amount. No identifiable supply exists for this cluster. On the job training is expected to sufficiently meet the demand for future jobs.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: BUTCHERING
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0460

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
STICKER	61089065	5	5	0.00	0	0	0
BUTCHERS &/OR MEAT CUTTERS	70041400	442	522	18.10	13	11	24
TOTALS		447	527	17.90	13	11	24

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: BUTCHERING
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0460

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
SLAUGHTERING AND BUTCH	48.0403				13			13
*** TOTALS					13			13

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE
DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: BUTCHERING
DELAWARE CLUSTER # 0460

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
316.684-018	MEAT CUTTER	10	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0460

N0460 Butchering

This cluster includes occupations which prepare meat, fish, or poultry in supermarkets or wholesale food outlets. They cut animal carcasses into wholesale cuts to facilitate handling and marketing.

This cluster's employment is growing slightly faster than the average for all occupations. Openings due to job growth and those due to separation are nearly equal. Demand exceeds supply in this relatively small cluster by nearly two-to-one.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: FOOD PRODUCTION & PROCESSING
DELAWARE DEPARTMENT OF LABOR
DELAWARE CLUSTER # 0470

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
GRADERS,FOOD &/OR SKINS	61060401	95	101	6.32	1	4	5
BONERS,POULTRY	61083202	365	391	7.12	4	12	16
DAIRY PROCESSING EQMT OPER	61086026	8	9	12.50	0	0	0
MEAT GRINDERS	61086033	5	5	0.00	0	0	0
COOKS &/OR COOKERS	61086035	30	31	3.33	0	1	1
RETORT OPERATORS	61086204	15	15	0.00	0	0	0
WASHERS &/OR SEPARATORS,FO	61086207	52	55	5.77	1	1	2
DIVIDING MACH OPERATORS,ET	61086259	5	5	0.00	0	0	0
OVEN OPERATORS	61086292	10	10	0.00	0	0	0
DRIER OPERATORS	61086295	11	11	0.00	0	0	0
CHEESEMAKER HELPERS	61089007	9	10	11.11	0	0	0
CHICKEN CUTTERS	61089008	656	699	6.55	7	16	23
COOLER ROOM WORKERS,MEAT	61089009	13	14	7.69	0	0	0
POULTRY DRESSERS,EVISCERAT	61089040	1567	1669	6.51	17	39	56
SHELLFISH SHUCKERS	61089053	148	157	6.08	2	4	6
CANNERY WORKERS	80002824	1053	1115	5.89	10	34	44
TOTALS		4042	4297	6.31	42	111	153

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: FOOD PRODUCTION & PROCESSING
PROGRAM COMPLETIONS DELAWARE CLUSTER # 0470

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP-RENT	HIGHER EDUC	TOTAL COMP
FOOD PRODUCTION, MANAG	20.0401	155	54					209
PRECISION FOOD PRODUCT	48.0499				3			3
*** TOTALS		155	54		3			212

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: FOOD PRODUCTION & PROCESSING DELAWARE CLUSTER # 0470

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
525.687-082	POULTRY-DRESSING WORKER	44	38	1.2
529.686-014	CANNERY WORKER	86	144	0.6
529.686-058	LABORER, SHELLFISH PROCES	3	3	1.0
529.687-074	EGG CANDLER	1	0	--
529.687-186	SORTER, AGRICULTURAL PROD	4	0	--
920.687-134	PACKER, AGRICULTURAL PROD	14	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0470

N0470 Food Production and Processing

This cluster includes occupations concerned with industrial food processing operations.

. Employment in this cluster is projected to increase less than the average for all occupations. Average annual openings due to separation far exceed those due to growth for this cluster. Supply for this cluster greatly exceeds demand. However, some of the completers may find positions in Cluster 480, FOOD SERVICES. Supplemental information indicates that current openings exceed applicants by a slight amount.

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM

D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: FOOD SERVICES
DELAWARE DEPARTMENT OF LABOR

DELAWARE CLUSTER # 0480

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
DIETETIC TECHNICIANS	10121011	9	11	22.22	0	0	0
MANAGERS, REST'RANT, COFFEE	20061400	1548	1646	6.33	17	56	73
BARTENDERS	70040400	1119	1357	21.27	40	78	118
DINING RM ATTNS, BAR HELPER	70040600	942	1144	21.44	34	7	41
COOKS, SHORT ORDER/SPEC FAS	70040802	1091	1230	12.74	23	40	63
COOKS, RESTAURANT	70040803	1060	1277	20.47	36	40	76
COOKS, INSTITUTIONAL	70040804	852	977	14.67	21	31	52
HOSTS/HOSTESSES, REST, LNGE,	70041601	459	552	20.26	16	17	33
WAITERS OR WAITRESSES	70041602	4973	5634	13.29	110	177	287
KITCHEN HELPERS	70041802	3210	3619	12.74	68	104	172
FD PREP & SERV WKRS, FAST F	70041804	4553	6325	38.92	295	166	461
PANTRY, SANDWICH, &/OR COFF	70041805	443	531	19.86	15	15	30
ALL OTHER FOOD SERVICE WOR	70041899	1781	2102	18.02	54	17	71
TOTALS		22040	26405	19.80	729	748	1477

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM

S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: FOOD SERVICES
PROGRAM COMPLETIONS

DELAWARE CLUSTER # 0480

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
WAITRESS	08.0305				2			2
CHEF/COOK	20.0403				4			4
FOOD SERVICE	20.0406				22			22
*** TOTALS					28			28

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM

SUPPLEMENTAL INFORMATION

(01) STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR

CLUSTER TITLE: FOOD SERVICES — DELAWARE CLUSTER # 0480

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
187.167-106	MANAGER, FOOD SERVICE	21	1	21.0
311.477-014	COUNTER ATTENDANT, LUNCHR	20	88	0.2
311.477-030	WAITER/WAITRESS, INFORMAL	86	35	2.5
311.477-038	WAITER/WAITRESS, TAKE OUT	6	0	--
311.677-010	CAFETERIA ATTENDANT	8	6	1.3
312.474-010	BARTENDER	35	7	5.0
313.131-014	CHEF	9	0	--
313.361-014	COOK	83	109	0.8
313.361-022	COOK, SHORT ORDER 1	65	31	2.1
313.361-026	COOK, SPECIALTY	3	1	3.0
313.361-030	COOK, SPECIALTY, FOREIGN	0	1	0.0
315.361-010	COOK	48	4	12.0
317.684-014	PANTRY GOODS MAKER	15	4	3.8
317.687-010	COOK HELPER	8	3	2.7
318.687-010	KITCHEN HELPER	104	80	1.3
319.137-010	FOOD-SERVICE SUPERVISOR	5	0	--
319.474-010	FOUNTAIN SERVER	0	2	0.0
355.677-010	FOOD-SERVICE WORKER, HOSP	29	3	9.7

NARRATIVE ANALYSIS FOR CLUSTER 0480

N0480 Food Services

This cluster includes occupations which manage, plan, prepare and serve food and beverages in restaurants, catering firms, hotels, clubs, bars, factories, school cafeterias, hospitals, rest homes, and other establishments that offer food and beverages.

Employment in this cluster is projected to increase at a rate slightly above the average for all occupations. This cluster is extremeley large with many entry level positions. Skills usually are learned through on-the-job training, therefore there are a relatively small number of formal programs providing supply completers. Current supplemental information indicates a large number of openings with an adequate supply of applicants.

XII. INDUSTRIAL PRODUCTION AND TECHNOLOGY

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: ASSEMBLER OCCUPATIONS
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0490

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
ASSEMBLERS	61080413	440	482	9.55	7	7	14
MACHINE ASSEMBLERS	61080436	63	62	-1.59	0	1	1
INSTRUMENT MAKERS/ASSEMBLE	61080437	5	4	-20.00	0	0	0
ELECTR. MECH. EQUIP. ASSEM	61080438	24	24	0.00	0	0	0
ELEC & ELECTRONIC ASSEMBLE	61080439	212	210	-.94	0	3	3
ALL OTHER ASSEMBLERS	61080440	2848	2590	-9.06	-43	41	-2
TOTALS		3592	3372	-6.11	-36	52	16

There is no institutional supply data available for this cluster

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[O] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: ASSEMBLER OCCUPATIONS — DELAWARE CLUSTER # 0490

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
709.684-014	ASSEMBLER, METAL FURNITUR	1	0	--
721.684-022	ELECTRIC MOTOR ASSEMBLER	1	0	--
725.384-010	TUBE ASSEMBLER, ELECTRON	1	0	--
726.261-010	ELECTRONIC ASSEMBLER, DEV	1	0	--
726.384-010	ELECTRONICS ASSEMBLER	1	0	--
726.684-018	ELECTRONICS ASSEMBLER	8	0	--
729.687-010	ASSEMBLER, ELECTRICAL ACC	1	0	--
731.687-034	TOY ASSEMBLER	1	0	--
739.687-030	ASSEMBLER, SMALL PRODUCTS	1	0	--
806.381-026	ASSEMBLER, AIRCRAFT, STRU	1	0	--
806.684-010	ASSEMBLER, AUTOMOBILE	138	30	4.6
809.684-010	ASSEMBLER, PRODUCTION LIN	1	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0490

N0490 Assembler

This cluster includes occupations which assemble and/or fit together parts to form complete units or subassemblies at a bench, conveyor line, or on the floor. Work may involve use of handtools, power tools, and special equipment in order to carry out fitting and assembly operations.

This cluster's employment is projected to decline by more than six percent for the period 1984-1990. The drop in employment is closely associated with slow growing or declining industries in the manufacturing sector. In spite of this projected decline, average annual openings due to separations will partially offset negative job growth. There is no identifiable institutional supply for these positions.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: CHEMICAL TECHNOLOGY/PLANT OPERATION
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0500

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
EVAPORATOR OPERATORS, CHEMI	61087254	139	124	-10.79	-3	3	0
KETTLE OPERATORS, ADHESIVE	61087257	17	15	-11.76	0	0	0
COMPRESSORS, TABLET	61087284	15	14	-6.67	0	0	0
CHEMICAL OPERATOR HELPERS	61087288	220	199	-9.55	-4	5	1
CHEMICAL OPERATORS A	61087290	268	270	0.75	0	7	7
CHEMICAL OPERATORS B	61087291	353	368	4.25	3	9	12
DRIER OPERATORS, CHEM, PLAST	61087294	41	49	19.51	1	1	2
CHIEF OPERATORS	61087295	168	188	11.90	3	4	7
REFINERY OPERATORS, PETROLE	61088625	82	73	-10.98	-2	2	0
REFINERY OPERATOR HELPERS,	61089067	311	263	-15.43	-8	7	-1
TOTALS		1614	1563	-3.15	-10	38	28

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: CHEMICAL TECHNOLOGY/PLANT OPERATION
PROGRAM COMPLETIONS DELAWARE CLUSTER # 0500

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
CHEMICAL MANUFACTURING	15.0601		8		2		11	21
*** TOTALS			8		2		11	21

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[O] STATE OF DELAWARE DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: CHEMICAL TECHNOLOGY/PLANT OPERATION DELAWARE CLUSTER # 0500

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
008.261-010	CHEMICAL-ENGINEERING TECH	1	0	--
558.585-014	CHEMICAL OPERATOR 2	17	4	4.3
559.382-018	CHEMICAL OPERATOR 3	2	0	--
559.382-046	PILOT-CONTROL OPERATOR	12	1	12.0

NARRATIVE ANALYSIS FOR CLUSTER 0500

N0500 Chemical Technology/Plant

This cluster includes occupations which control or operate one or more equipment units or system of units performing operations involving chemical changes or reactions or the processing of industrial or consumer products.

Employment is projected to decline in this cluster by more than 3 percent for the 1984-1990 period. Even considering this decline, employment opportunities due to separation will offset job decline as a result of negative growth. Supply and demand for this cluster are in relative balance. Supplemental information indicates an excess of job applicants to openings.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: ELECTRIC/ELECTRONIC TECHNOLOGY
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0510

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL GROWTH	OPS - SEP.	OPS - TOTAL
ELEC & ELECT TECHNICIANS	10080803	686	826	20.41	23	6	29
TOTALS		686	826	20.41	23	6	29

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: ELECTRIC/ELECTRONIC TECHNOLOGY
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0510

- PROGRAM - TITLE	CIP. CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP-RENT	HIGHER EDUC	TOTAL COMP
ELECTRICAL TECHNOLOGY	15.0302		26			13	3	42
ELECTRONICS TECHNOLOGY	15.0303	14	12	68		55	15	164
*** TOTALS		14	38	68		68	18	206

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION
[O] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: ELECTRIC/ELECTRONIC TECHNOLOGY — DELAWARE CLUSTER # 0510

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
003.161-014	ELECTRONICS TECHNICIAN	17	0	--
199.361-010	RADIOGRAPHER	4	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0510

N0510 Electrical/Electronic Technology

This cluster includes occupations involved in constructing, repairing, testing, installing, modifying, operating, or designing a variety of production or experimental types of complex electrical or electronic equipment utilizing knowledge of electrical/electronic theory, physical sciences, and mathematics.

This cluster shows growth at a slightly faster rate than the average for all occupations. Average annual openings due to growth greatly exceed openings due to separation. Supply far exceeds demand. Current supplemental information indicates a substantial number of applicants in excess of demand.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: FOUNDRY OCCUPATIONS
DELAWARE DEPARTMENT OF LABOR
DELAWARE CLUSTER # 0520

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
HAMMERSMITHS, OPEN DIE	50060803	12	12	0.00	0	0	0
MOLDERS, MACHINE (METAL)	50061805	15	10	-33.33	-1	0	-1
POURERS, METAL	61020435	14	15	7.14	0	0	0
FURNACE OPERATORS, CUPOLA	61020436	14	14	0.00	0	0	0
HEATERS, METAL	61020800	8	9	12.50	0	0	0
TOTALS		63	60	-4.75	-1	0	-1

There is no institutional supply data available for this cluster.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE
DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: FOUNDRY OCCUPATIONS
DELAWARE CLUSTER # 0520

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
519.687-022	FOUNDRY WORKER, GENERAL	2	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0520

N0520 Foundry

This cluster includes occupations in which metals are cast, formed, shaped, molded, heat-treated, twisted, fused, stamped or otherwise worked upon.

Employment in this cluster is expected to decline by about 5% to 1990. There is no identifiable source of supply for this relatively small cluster.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: INDUSTRIAL TECHNOLOGY
DELAWARE DEPARTMENT OF LABOR

DELAWARE CLUSTER # 0530

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL GROWTH	OPS - SEP.	OPS - TOTAL
INDUSTRIAL ENGINRING TECHN	10081000	18	20	11.11	0	0	0
ALL OTHER ENGINEERING TECH	10081898	538	686	27.51	25	9	34
TOTALS		556	706	26.98	25	9	34

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: INDUSTRIAL TECHNOLOGY
PROGRAM COMPLETIONS

DELAWARE CLUSTER # 0530

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APPR- RENT	HIGHER EDUC	TOTAL COMP
INDUSTRIAL TECHNOLOGY	15.0603						20	20
*** TOTALS							20	20

There is no supplemental information available for this cluster.

N0530 Industrial Technology

This cluster includes occupations that assist an industrial engineer in the study and recording of time, motion, methods, and speed involved in production, maintenance, and other worker operations for purposes of establishing standard production rates or improving efficiency. It also includes engineering technicians not elsewhere classified who assist engineers in both laboratory and production activities.

Employment in this cluster will grow at a rate significantly faster than the average for all occupations. Most of the annual employment openings will be a result of growth, rather than separation. Demand is slightly greater than supply.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: INVENTORY & MATERIAL HANDLING OCCUPATI
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0540

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
PRODUCTION CLERKS	40062400	281	318	13.17	6	9	15
SHIPPING & RECEIVING CLERK	40065001	664	754	13.55	15	18	33
SHIPPING PACKERS	40065002	975	1129	15.79	26	27	53
STOCK CLERKS, STOCKRM, WAREH	40065404	2027	2265	11.74	40	58	98
WEIGHERS, RECORD KEEPING	40066600	22	22	0.00	0	0	0
PRODUCTION PACKAGERS	61060802	998	1136	13.83	23	30	53
BUNDLERS	61060803	12	9	-25.00	-1	0	-1
BAGGERS	61060804	157	166	5.73	2	5	7
INDUSTRIAL TRUCK OPERATORS	62001001	1004	1069	6.47	11	15	26
WORK DISTRIBUTORS	80001023	47	41	-12.77	-1	1	0
ORDER FILLERS	80002001	412	475	15.29	11	6	17
STOCK CLERKS, SALES FLOOR	80002003	1207	1480	22.62	46	17	63
TOTALS		7806	8864	13.55	178	186	364

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: INVENTORY & MATERIAL HANDLING OCCUPATI
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0540

- PROGRAM - TITLE	CIP CODE	PRI/PUB VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
STOCK CLERK	07.0708			4			4
WAREHOUSEMAN, MATERIAL	49.0203			11			11
*** TOTALS				15			15

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: INVENTORY & MATERIAL HANDLING OCCUPATI DELAWARE CLUSTER # 0540

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
222.387-058	STOCK CLERK	36	16	2.3
920.587-018	PACKAGER, HAND	83	6	13.8
920.685-078	PACKAGER, MACHINE	19	1	19.0
920.687-014	BAGGER	1	0	--
920.687-126	MARKER 2	2	0	--
929.687-030	MATERIAL HANDLER	98	66	1.5

NARRATIVE ANALYSIS FOR CLUSTER 0540

N0540 Inventory and Material Handling

This cluster includes occupations involving receiving, storing, issuing, or shipping of materials, merchandise, supplies, or equipment. Work involves a combination of checking incoming orders; storing supplies; applying identification to articles; issuing supplies; taking periodic inventory; or keeping perpetual inventory; making up necessary reports, requesting or ordering supplies when needed. May also pack or load material.

This large cluster shows a growth pattern comparable to the average rate of growth for all occupations. Average annual openings will be evenly distributed between growth and separation. Although demand far exceeds supply, most of these occupations require little formal training at the entry level. Supplemental information shows a significant number of openings and a correspondingly larger pool of applicants.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: LABORERS, MISC.
DELAWARE DEPARTMENT OF LABOR DELAWARE CLUSTER # 0550

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
SEWER TAPPERS	80000612	5	5	0.00	0	0	0
LOADERS, TANK CARS &/OR TR	80001019	65	65	0.00	0	1	1
CONVEYOR OPERATORS OR TEND	80001020	127	140	10.24	2	2	4
REFUSE COLLECTORS	80001200	340	334	-1.76	-1	9	8
CLEANERS, VEHICLE	80002401	499	512	2.61	2	8	10
FURNACE OPERATORS, HELPERS	80002819	5	6	20.00	0	0	0
RIGGERS	80002822	53	52	-1.89	0	2	2
LINE SERVICE ATTENDANTS	80002830	16	17	6.25	0	1	1
SEPTIC TANK SERVICERS	80002832	36	37	2.78	0	1	1
ALL OTHER LABORERS & UNSKI	80002899	7300	7666	5.01	61	112	173
TOTALS		8446	8834	4.59	64	136	200

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: LABORERS, MISC.
PROGRAM COMPLETIONS

DELAWARE CLUSTER # 0550

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP-RENT	HIGHER EDUC	TOTAL COMP
TRANSPORTATION AND MAT	49.9999				3	8		11
*** TOTALS					3	8		11

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: LABORERS, MISC. — DELAWARE CLUSTER # 0550

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
509.686-010	LABORER, GENERAL	2	4	0.5
559.567-010	LABORER, GENERAL	1	0	--
609.684-014	LABORER, GENERAL	1	1	1.0
705.687-014	LABORER, GRINDING AND POL	0	4	0.0
809.687-022	LABORER, SHIPYARD	1	0	--
862.684-014	LABORER, CONSTRUCTION OR	3	12	0.3
929.687-022	LABORER, SALVAGE	4	1	4.0

NARRATIVE ANALYSIS FOR CLUSTER 0550

N0550 Laborers

This cluster includes occupations which manually lift and carry materials in production activities. Some workers aid in fabricating, assembling, and handfinishing of manufactured goods.

This cluster is growing at a slower than average rate. Openings due to separation on an annual basis exceed those due to growth by more than a two-to-one margin. Very little institutional supply exists, with most occupations requiring little formal training at the entry level.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

(D) STATE OF DELAWARE
CLUSTER TITLE: OPERATIVES, MISC. & SEMI-SKILLED WKRS
DELAWARE DEPARTMENT OF LABOR DELAWARE CLUSTER # 0560

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
GLASS BLOWING LATHE OPERAT	61021002	6	7	16.67	0	0	0
PICKER TENDER	61040206	6	5	-16.67	0	0	0
MOBILE HOME SET-UP OPERATO	61080401	53	62	16.98	2	1	3
ELECTROLYTIC CELL MAKERS,	61080417	15	15	0.00	0	0	0
MACHINE CUTTER	61081403	48	51	6.25	1	1	2
POLISHERS, GLASS &/OR BLOC	61082408	8	10	25.00	0	0	0
GAGERS	61083620	6	5	-16.67	0	0	0
ROUSTABOUTS	61083629	5	6	20.00	0	0	0
ASPHALT PLANT OPERATORS	61083806	11	10	-9.09	0	0	0
COOLING MIXERS, TENDERS	61083817	7	7	0.00	0	0	0
PAINTERS, PRODUCTION	61084210	435	353	-18.85	-14	9	-5
TRIMMERS, MACHINE	61085439	9	14	55.56	1	0	1
FURNACE &/OR BURNER TENDER	61085612	29	23	-20.69	-1	1	0
FURNACE, KILN, DRIER OPERA	61085619	12	15	25.00	1	1	2
BLANCHING MACHINE OPERATOR	61086213	6	7	16.67	0	0	0
REFINERY OPERATORS	61086224	62	65	4.84	1	2	3
CALCINER OPERATORS	61087213	14	13	-7.14	0	0	0
DRAW MACHINE OPERATORS	61087235	60	53	-11.67	-1	1	0
BLOCK MAKING MACHINE OPERA	61088038	7	9	28.57	0	0	0
CONCRETE STONE FABRICATORS	61088040	13	16	23.08	1	0	1
CONCRETE VAULT MAKERS	61088070	35	38	8.57	1	1	2
COILERS, WINDERS, &/OR SPO	61088229	12	11	-8.33	0	0	0
STRANDING MACHINE OPERATOR	61088260	29	30	3.45	0	1	1
INSULATING EXTRUDING MACHI	61088280	8	7	-12.50	0	0	0
FILTER/FILTER PRESS OPERAT	61088405	49	44	-10.20	-1	1	0
GRINDER OPERATORS	61088407	54	62	14.81	1	1	2
LAMINATORS, PREFORMS	61088415	24	38	58.33	2	1	3
INSUL. WRAPPING/BRAIDING M	61088437	12	12	0.00	0	0	0
TIRE FABRICATORS, REPAIRER	61088614	78	69	-11.54	-2	2	0
GRANULATOR MACHINE OPERATO	61088628	16	14	-12.50	0	0	0
CONCRETE PIPE MAKERS	61088814	6	7	16.67	0	0	0
FINISHERS, HAND	61088818	38	58	52.63	3	1	4
PLATER HELPERS	61088834	18	17	-5.56	0	0	0
WIRE DRAWERS	61088850	14	13	-7.14	0	0	0
PIPE STRIPPERS	61088851	7	9	28.57	0	0	0
PURIFICATION OPERATORS, ET	61089091	27	25	-7.41	0	1	1
BILL POSTERS	61089203	8	8	0.00	0	0	0
MOTOR BOAT OPERATORS	62000200	10	9	-10.00	0	0	0
DRIVERS, ASSEMBLY LINE	62002005	63	69	9.52	1	2	3
ALL OTHER OP & SEMISKILLED	63000000	5722	6248	9.19	88	133	321
TOTALS		7042	7534	6.99	84	160	244

There is no institutional supply data available for this cluster.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[O] STATE OF DELAWARE DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: OPERATIVES, MISC. & SEMI-SKILLED WKRS DELAWARE CLUSTER # : 560

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
575.382-014	FORMING - MACHINE OPERATO	0	0	--
603.682-026	POLISHING-MACHINE OPERATO	0	0	--
679.685-010	MACHINE OPERATOR, CERAMIC	1	0	--
741.684-026	PAINTER, SPRAY 1	9	0	--
741.687-018	PAINTER, SPRAY 2	1	0	--
845.381-014	PAINTER, TRANSPORTATION E	6	3	2.0

NARRATIVE ANALYSIS FOR CLUSTER 0560

N0560 Operatives, Miscellaneous

This cluster includes occupations not elsewhere classified of operatives and semiskilled workers in production, maintenance, construction, repair, material handling, and power plant occupations.

This large and diverse cluster shows a slower than average growth pattern, owing to its employment base in the manufacturing sector. Average annual openings due to separation exceed those due to growth by more than a two-to-one margin. This cluster shows no identifiable institutional source of supply, with training provided in an on-the-job format.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: PAPER OCCUPATIONS
DELAWARE DEPARTMENT OF LABOR

DELAWARE CLUSTER # 0570

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
FOURDRINIER MACHINE TENDER	61087014	7	7	0.00	0	0	0
BACK TENDERS	61087015	6	6	0.00	0	0	0
BEATERS	61087018	5	5	0.00	0	0	0
COATER OPERATORS, OFF-MACH	61087023	14	15	7.14	0	0	0
PAPER CUP MACHINE OPERATOR	61087031	11	12	9.09	0	0	0
PRINTER SLOTTER OPERATOR	61087032	9	10	11.11	0	0	0
TAPING MACHINE OPERATOR	61087038	7	8	14.29	0	0	0
FLEXO FOLDER-GLUER OPERATO	61087043	6	7	16.67	0	0	0
CUTTING & CREASING PRESS O	61087056	12	13	8.33	0	0	0
CORRUGATOR OPERATORS	61087060	6	7	16.67	0	0	0
SCRAPPERS/STRIPPERS	61087063	24	27	12.50	1	1	2
TOTALS		107	117	9.35	1	1	2

There is no institutional supply data available for this cluster.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE
CLUSTER TITLE: PAPER OCCUPATIONS
DELAWARE DEPARTMENT OF LABOR
DELAWARE CLUSTER # 0570

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
641.680-010	ENVELOPE-FOLDING-MACHINE	0	1	0.0
649.687-010	PAPER SORTER AND COUNTER	1	0	--
653.382-010	FOLDING-MACHINE OPERATOR	1	1	1.0

NARRATIVE ANALYSIS FOR CLUSTER 0570

N0570 Paper

This cluster includes those operatives invloved in the manufacture of paper and paper-related products.

This relatively small cluster shows a growth rate below the all-occupational average. Openings are expected to be very slight over the period. There is no identifiable source of institutional supply for this cluster.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: PLASTICS OCCUPATIONS
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0580

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
SETTERS, PLASTIC MOLDING M	50061009	12	21	75.00	2	1	3
PUNCH PRESS OPERATORS, PLA	61021610	31	50	61.29	3	1	4
SAWYERS, PLASTICS	61085015	7	12	71.43	1	0	1
EXTRUDER OPERATORS, RUBBER	61087623	156	208	33.33	9	4	13
EXTRUDER OP. HELPERS, RUBB	61087624	35	54	54.29	3	1	4
BLOW MOLDING MACHINE OPERA	61087631	16	26	62.50	2	1	3
CALENDER OPS., RUBBER/PLAS	61087633	52	61	17.31	2	1	3
FINISHERS, MACHINE	61087639	9	13	44.44	1	0	1
COMPR. &/OR INJ. MOLDING M	61087645	131	196	49.62	11	4	15
PRESS OPERATORS, PLASTIC	61088416	29	47	62.07	3	1	4
FABRICATORS, PLASTICS	61088817	36	55	52.78	3	1	4
CASTERS, PLASTIC	61089078	20	31	55.00	2	1	3
TOTALS		534	774	44.94	42	16	58

There is no institutional supply data available for this cluster.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: PLASTICS OCCUPATIONS — DELAWARE CLUSTER # 0580

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
556.682-010	BLOW-MOLDING-MACHINE OPER	0	0	--
556.685-022	COMPRESSION-MOLDING-MACHI	1	0	--
556.685-038	INJECTION-MOLDING-MACHINE	2	0	--
557.382-010	EXTRUDER OPERATOR	2	1	2.0

NARRATIVE ANALYSIS FOR CLUSTER 0580

N0580.Plastics Occupations

This cluster includes those operatives involved in the manufacture of plastic and plastic-related products

Employment change in this cluster shows a substantial increase over the period, attributable in large part to the projected continued growth in the plastics products industry. Average annual openings due to growth account for most of the employment opportunities. No identifiable source of institutional supply exists for this cluster.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: POWER UTILITIES OCCUPATIONS
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0590

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL GROWTH	OPS - SEP.	OPS - TOTAL
CABLE SPLICERS	50120201	115	119	3.48	1	2	3
LINE INSTALLERS, REPAIRERS	50120202	135	135	0.00	0	2	2
TROUBLE SHOOTERS, POWER LIN	50120203	50	49	-2.00	0	1	1
SWITCHBOARD OPS, GENERATING	50120800	23	22	-4.35	0	0	0
CONTROL ROOM OPERATORS, STE	50144002	37	26	-29.73	-2	1	-1
DIESEL PLANT OPERATORS	50144003	53	53	0.00	0	2	2
AUXILIARY EQUIPMENT OPERAT	50144004	12	7	-41.67	-1	0	-1
STATIONARY ENGINEERS	50144014	215	229	6.51	2	7	9
TURBINE OPERATORS	50144015	11	11	0.00	0	0	0
STATIONARY BOILER FIRERS	61085602	156	163	4.49	1	7	8
TOTALS		807	814	0.87	1	22	33

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: POWER UTILITIES OCCUPATIONS
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0590

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
LINEWORKER	46.0303				2			2
POWER PLANT OPERATOR	47.0501					22		22
STATIONARY ENERGY SOUR	47.0599		19					19
*** TOTALS			19		2	22		43

11/26/85

DELAWARE OCCUPATIONAL INFORMATION SYSTEM

SUPPLEMENTAL INFORMATION

[O] STATE OF DELAWARE DELAWARE DEPARTMENT OF LABOR

CLUSTER TITLE: POWER UTILITIES OCCUPATIONS DELAWARE CLUSTER # 0590

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
821.361-026	LINE REPAIRER	1	0	--
950.382-026	STATIONARY ENGINEER	4	0	--
952.382-018	POWER-PLANT OPERATOR	1	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0590

N0590 Power Utilities

This cluster includes occupations that install, operate, and maintain large power sources for such purposes as generating electricity, pumping, and heating.

This cluster shows little estimated growth over the period, with average annual openings determined almost completely by separation. Supply exceeds demand, with apprentices accounting for about one-half of total institutional supply.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: TEXTILE INDUSTRY OCCUPATIONS
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0600

OCCUPATION TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	AV. ANNUAL GROWTH	OPS SEP.	OPS TOTAL
COLORISTS TEXTILES	10081811	5	3	-40.00	0	0	0
ALTERATION TAILORS	50144401	122	159	30.33	6	7	13
CARD TENDRS,COMBER TENDRS,	61040202	7	6	-14.29	0	0	0
KNITTING MACHINE OPERATORS	61040403	12	9	-25.00	-1	0	-1
BEAM WARPER TENDERS &/OR B	61040601	8	6	-25.00	0	0	0
CLOTH OR CARPET WINDERS	61040605	8	6	-25.00	0	0	0
CREELERS, YARN	61040606	31	25	-19.35	-1	0	-1
DOFFERS	61040607	65	57	-12.31	-1	1	0
YARN WINDERS	61040618	16	14	-12.50	0	0	0
BOIL-OFF MACHINE OPERATORS	61041005	15	12	-20.00	-1	0	-1
CLOTH PRINTERS	61041011	14	12	-14.29	0	0	0
TENTER FRAME OPERATORS	61041025	25	13	-48.00	-2	0	-2
TURNERS	61041027	11	9	-18.18	0	0	0
FOLDERS, HAND	61041028	18	14	-22.22	-1	0	-1
PLEATING MACHINE OPERATORS	61081207	16	13	-18.75	-1	1	0
CUTTERS, PORTABLE MACHINE	61081417	12	9	-25.00	-1	0	-1
SEWERS, CUSTOM	61081600	32	35	9.38	1	2	3
DYE RANGE OPS/SP DYE BECK	61082204	5	5	0.00	0	0	0
MENDERS	61085204	14	21	50.00	1	1	2
SEWING MACH OPS, REG EQMT, N	61085205	56	61	8.93	1	3	4
SEWING MACH OPS, SPEC EQMT,	61085215	31	26	-16.13	-1	1	0
SEWING MACH OPS, SPEC EQMT,	61085219	47	37	-21.28	-2	2	0
SEWING MACH OPS, REG EQMT, G	61085220	701	534	-23.82	-28	29	1
CALENDER OPERATORS, CLOTH P	61086604	19	15	-21.05	-1	0	-1
SPINNERS, SYNTHETIC FILAMEN	61087225	497	345	-30.58	-25	10	-15
SOABAR OPERATORS	61088443	6	5	-16.67	0	0	0
THREAD TRIMMERS	61089071	36	38	5.56	0	1	1
MARKERS	61089092	5	4	-20.00	0	0	0
TOTALS		1834	1493	-18.58	-57	58	1

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: TEXTILE INDUSTRY OCCUPATIONS
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0600

PROGRAM TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP-RENT	HIGHER EDUC	TOTAL COMP
TEXTILE TECHNOLOGY	15.0609				1			1
TEXTILE SCIENCE	19.0904						3	3
CLOTH.,APPAREL & TEXTI	20.0301	26						26
*** TOTALS		26			1		3	30

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[O] STATE OF DELAWARE DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: TEXTILE INDUSTRY OCCUPATIONS DELAWARE CLUSTER # 0600

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
681.685-154	YARN WINDER	0	0	--
685.665-014	KNITTING-MACHINE OPERATOR	2	0	--
782.684-058	SEWER, HAND	3	0	--
783.682-014	SEWING-MACHINE OPERATOR	1	0	--
785.361-010	ALTERATION TAILOR	4	2	2.0
787.682-046	SEWING-MACHINE OPERATOR	54	39	1.3
789.687-070	GARMENT INSPECTOR	1	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0600

N0600 Textiles

This cluster includes occupations involved in operating and tending textile manufacturing equipment used for winding, twisting, knitting, weaving, and sewing together materials such as garments, quilts, and upholstery. It also includes occupations which design and make garments such as suits and coats and alter clothing to fit individual customers.

This cluster shows a substantial decline over the period, continuing a long term trend in the State. Practically no annual average openings are estimated, as openings due to separation will merely keep pace with annual job losses. Supply considerable exceeds demand. Current supplemental information suggests a relative excess of supply.

XIII. MACHINIST, METALWORKING, & WELDING

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: MACHINIST SERVICES
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0610

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
HEAT TREATERS, ANNEALERS, ET	50060600	16	17	6.25	0	0	0
MACHINE TOOL SETTERS, METAL	50061003	36	40	11.11	1	2	3
LAYOUT MARKERS, METAL	50061202	24	24	0.00	0	1	1
MACHINISTS	50061206	686	724	5.54	6	19	25
TOOL & DIE MAKERS	50063001	88	91	3.41	0	2	2
DRILL PRESS/BORING MACHINE	61020201	41	42	2.44	0	1	1
GRINDING/ABRADING MACH OPS	61020600	41	40	-2.44	0	1	1
LATHE MACH OPERATORS, METAL	61021006	65	63	-3.08	0	1	1
MILLING/PLANING MACHINE OP	61021007	14	13	-7.14	0	0	0
MACHINE TOOL OPERATORS, COM	61021402	220	219	-.45	0	3	3
MACHINE TOOL OPERATORS, NUM	61021403	36	39	8.33	1	1	2
PUNCH PRESS OPERATORS, META	61021609	161	165	2.48	1	2	3
POWER BRAKE, BENDING MACH O	61021611	102	100	-1.96	0	1	1
DIE CUTTERS, CLICKING MACH	61081424	12	14	16.67	0	0	0
FILERS, GRINDERS, BUFFERS, CH	61082401	313	341	8.95	5	9	14
TOTALS		1855	1932	4.15	14	43	57

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: MACHINIST SERVICES
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0610

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
INDUSTRIAL PRODUCTION	15.0699						7	7
PRECISION METAL WORK,	48.0501				28	1		29
MACHINE SHOP	48.0503	12	14			120		146
*** TOTALS		12	14		28	121	7	182

11/26/85

DELAWARE OCCUPATIONAL INFORMATION SYSTEM

SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE DELAWARE DEPARTMENT OF LABOR

CLUSTER TITLE: MACHINIST SERVICES DELAWARE CLUSTER # 0610

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
600.280-022	MACHINIST	12	10	1.2
600.380-018	MACHINE SET-UP OPERATOR	3	0	--
601.280-046	TOOL-AND-DIE MAKER	0	1	0.0
604.380-022	SCREW-MACHINE SET-UP OPER	1	0	--
604.685-026	LATHE OPERATOR, PRODUCTIO	3	2	1.5
609.685-018	PRODUCTION-MACHINE TENDER	2	0	--
615.482-022	PUNCH-PRESS OPERATOR 1	5	0	--
809.281-010	LAY-OUT WORKER 1	2	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0610

N0610 Machinist

This cluster includes occupations involving precision shaping of metal parts or products by milling, turning, planing, abrading, boring, chipping, sawing, and shaving with a variety of metal-working machines.

Employment in this cluster shows a below average growth pattern. Average annual openings due to separation far exceed those due to growth. Supply is considerably greater than demand; however, apprentices account for more than three-fourths of total supply, and it cannot be assumed that each completer will necessarily enter these occupations.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: SHEET METAL OCCUPATIONS
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0620

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL GROWTH	OPS - SEP.	OPS - TOTAL
SHEAR &/OR SLITTER SETTERS	50061008	26	27	3.85	0	1	1
SHEET METAL WORKERS	50062600	655	670	2.29	3	12	15
SHEAR &/OR SLITTER OPERATO	61081459	53	54	1.89	0	1	1
RIVETERS,LIGHT	61084606	13	14	7.69	0	0	0
TOTALS		747	765	2.41	3	14	17

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: SHEET METAL OCCUPATIONS
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0620

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
SHEET METAL WORKERS	48.0506	12	4		41	77		134
*** TOTALS		12	4		41	77		134

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[O] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: SHEET METAL OCCUPATIONS — DELAWARE CLUSTER # 0620

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
804.281-010	SHEET-METAL WORKER	16	5	3.2

NARRATIVE ANALYSIS FOR CLUSTER 0620

N0620 Sheet Metal Occupations

This cluster includes occupations involving fabrication, installation or maintenance of a variety of sheet metal products for home and commercial and industrial buildings. Products include ducts for air conditioning, heating, and ventilating and pollution-control systems, kitchen equipment, roofs, siding, rain gutters, skylights, and outdoor signs.

This cluster's employment is projected to grow at a slower than average rate for the 1984-1990 period. Annual average openings due to separations comprise the majority of openings. Supply far exceeds demand. More than half of the completers for this cluster are apprentice program graduates.

11/26/85

DELAWARE OCCUPATIONAL INFORMATION SYSTEM

D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: WELDING OCCUPATIONS
DELAWARE DEPARTMENT OF LABOR

DELAWARE CLUSTER # 0630

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL GROWTH	OPS - SEP.	OPS - TOTAL
WELDERS & FLAMECUTTERS	61022002	1397	1317	-5.73	-13	26	13
TOTALS		1397	1317	-5.72	-13	26	13

11/26/85

DELAWARE OCCUPATIONAL INFORMATION SYSTEM

S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: WELDING OCCUPATIONS
PROGRAM COMPLETIONS

DELAWARE CLUSTER # 0630

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
WELDING TECHNOLOGY	15.0610						9	9
WELDING, BRAZING, AND	48.0508	16	23			148		187
*** TOTALS		16	23			148	9	196

11/26/85

DELAWARE OCCUPATIONAL INFORMATION SYSTEM

SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE
DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: WELDING OCCUPATIONS

DELAWARE CLUSTER # 0630

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
811.684-014	WELDER, GAS	2	1	2.0
813.684-022	SOLDERER, PRODUCTION LINE	1	0	--
819.384-010	WELDER, COMBINATION	32	14	2.3
819.684-010	WELDER, PRODUCTION LINE	9	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0630

N0630 Welding

This cluster includes occupations concerned with the joining of metal parts by three welding processes; 1) electric arc welding; 2) resistance welding; and 3) gas welding.

Employment in this cluster for the 1984-1990 period is expected to decline. Most of the decline for this cluster is expected to occur in the manufacturing durable goods sector. Despite the projected net job loss, annual openings due to separation are expected to provide some placement opportunities for welders. Supply significantly exceeds demand. About 75% of the completers represent apprentice program graduates. Current supplemental information indicates that there are three applicants for each job opening.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: OTHER METAL WORKING OCCUPATIONS
DELAWARE DEPARTMENT OF LABOR DELAWARE CLUSTER # 0640

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
BOILERMAKERS	50060400	130	203	6.84	2	6	8
ELECTROPLATERS	61021201	8	8	0.00	0	0	0
DIP PLATERS, NONELECTROLYTI	61021202	6	6	0.00	0	0	0
SANDBLASTERS/SHOTBLASTERS	61082402	13	13	0.00	0	0	0
TOTALS		217	230	5.99	2	6	8

There is no institutional supply data available for this cluster.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: OTHER METAL WORKING OCCUPATIONS DELAWARE CLUSTER # 0640

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
805.261-014	BOILERMAKER 1	1	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0640

N0640 Other Metalworking Occupations

This cluster includes metalworking assembler and operative occupations not elsewhere classified.

Employment in this small cluster is expected to grow at a below average rate. Most of the small number of average annual job openings will be due to separation. No identifiable institutional supply exists for this cluster.

XIV. MARKETING & ADVERTISING

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: ADVERTISING SERVICES
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0650

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
PUBLIC RELATIONS SPECIALIS	10122000	68	87	27.94	3	2	5
PUBLIC RELATIONS SPECIALIS	10222000	88	117	32.95	5	4	9
MEDIA BUYERS	10240803	31	39	25.81	1	1	2
MEDIA CLERKS/ESTIMATORS/BI	40066809	6	9	50.00	1	0	1
TOTALS		193	252	30.57	10	7	17

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: ADVERTISING SERVICES
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0650

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
ADVERTISING	09.0201						3	3
*** TOTALS							3	3

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: ADVERTISING SERVICES DELAWARE CLUSTER # 0650

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
165.067-010	PUBLIC-RELATIONS REPRESEN	10	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0650

N0650 Advertising Services

This cluster includes occupations which create, execute, transmit, and evaluate commercial messages concerned with the promotion and sale of products and services.

This small cluster's employment is expected to grow faster than the average for all occupations. Supply and demand for this cluster are in relative balanace.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: TOURISM
DELAWARE DEPARTMENT OF LABOR DELAWARE CLUSTER # 0660

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
TRAVEL AGTS, TR ACCOM APPRA	10243821	166	202	21.69	6	7	13
TRAVEL COUNSELORS, AUTO CLU	40064804	28	34	21.43	1	1	2
TICKET AGENTS	40066405	37	34	-8.11	-1	1	0
GUIDES, SIGHTSEEING OR ESTA	70080619	293	333	13.65	7	23	30
TOTALS		524	603	15.08	13	32	45

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: TOURISM
PROGRAM COMPLETIONS DELAWARE CLUSTER # 0660

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
TOURISM	08.1104						26	26
TRAVEL SERVICES MARKET	08.1105			41		20		61
*** TOTALS				41		20	26	87

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[O] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: TOURISM — DELAWARE CLUSTER # 0660

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
238.367-026	TICKET AGENT	2	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0660

N0660 Tourism

This cluster includes occupations which engage in passenger and freight transportation, travel services, and other services incidental to transportation, storage, travel, or tourism.

This cluster's employment is expected to grow at about the same pace as the average for all occupations. Openings due to separations will exceed those due to growth by about a two-to-one margin. Supply is expected to substantially exceed demand.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: WHOLESALE & RETAIL MARKETING
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0670

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
BUYERS, RETAIL &/OR WHOLSL	10240804	352	417	18.47	11	17	38
MANAGERS, MERCHANDISE	20020800	736	883	19.97	25	15	40
MANAGERS, STORE	20061612	4155	4702	13.16	91	153	244
MANAGERS, AUTO SERVICE DEPT	20061613	211	210	-.47	0	7	7
MANAGERS, AUTO PARTS DEPT	20061614	145	139	-4.14	-1	5	4
WHOLESALERS	20061615	467	536	14.78	13	17	29
SALES CLERKS	30001802	13034	15611	19.77	430	546	976
VENDORS	30001803	15	19	26.67	1	1	2
CONTRIBUTION SOLICITORS	30001804	11	16	45.45	1	1	2
CRATING & MOVING ESTIMATOR	30001805	24	25	4.17	0	1	1
SALES CLERK SUPERVISORS	30001806	31	37	19.35	1	1	2
ALL OTHER SALES WORKERS	30001899	6370	7119	11.76	126	7	133
CASHIERS	40060800	4422	5637	27.48	203	163	366
CAR RENTAL CLERKS	40061601	34	39	14.71	1	1	2
TRAFFIC AGENTS	40066402	20	20	0.00	0	0	0
MERCHAN DISPLAYERS & WIND	50141000	56	69	23.21	2	3	5
CHECKERS, FITTING ROOM	70100602	78	91	16.67	2	9	11
TOTALS		30161	35570	17.93	905	947	1852

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: WHOLESALE & RETAIL MARKETING
PROGRAM COMPLETIONS DELAWARE CLUSTER # 0670

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP-RENT	HIGHER EDUC	TOTAL COMP
FASHION MERCHANDISING	08.0102						66	66
MODELING	08.0103			196	1			197
SALES	08.0706				55			55
GENERAL MARKETING, OTH	08.0799						4	4
MARKETING AND DISTRIBU	08.9999	231	8					239
TEXTILES & CLOTHING, R	13.0903						53	53
*** TOTALS		231	8	196	56		123	614

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: WHOLESALE & RETAIL MARKETING DELAWARE CLUSTER # 0670

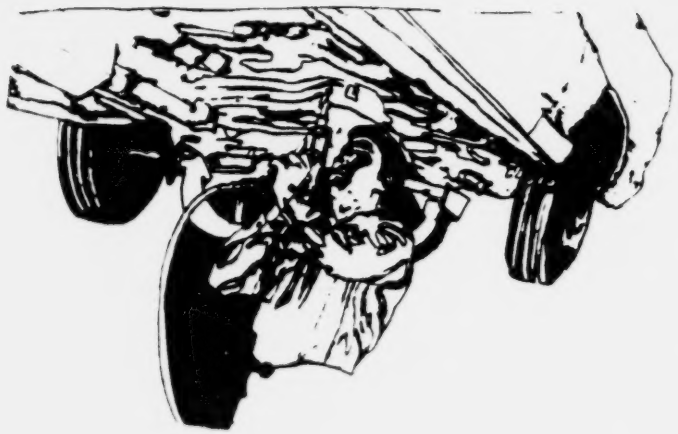
DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
185.167-014	MANAGER, AUTOMOBILE SERVI	9	0	--
185.167-046	MANAGER, RETAIL STORE	52	15	3.5
211.362-010	CASHIER 1	36	2	18.0
211.462-010	CASHIER 2	74	7	10.6
254.357-014	SALES REPRESENTATIVE, ADV	1	0	--
261.357-050	SALESPERSON, MEN'S AND BO	3	2	1.5
261.357-054	SALESPERSON, MEN'S FURNIS	3	1	3.0
261.357-062	SALESPERSON, SHOES	7	3	2.3
261.357-066	SALESPERSON, WOMEN'S APPA	7	62	0.1
273.353-010	SALESPERSON, AUTOMOBILES	8	0	--
273.357-022	SALES REPRESENTATIVE, MOT	2	0	--
274.357-022	SALES REP, CONSTRUCTION M	0	0	--
275.357-034	SALES REPRESENTATIVE, OFF	1	0	--
277.357-034	SALESPERSON, BOOKS	0	1	0.0
279.357-050	SALESPERSON, GENERAL HARD	3	4	0.8
279.357-054	SALESPERSON, GENERAL MERC	35	16	2.2
279.357-062	SALESPERSON, PARTS	6	12	0.5
290.477-014	SALES CLERK	52	27	1.9
290.477-018	SALES CLERK, FOOD	11	30	0.4
299.357-014	TELEPHONE SOLICITOR	6	11	0.5

NARRATIVE ANALYSIS FOR CLUSTER 0670

N0670 Wholesale and Retail Marketing

This cluster includes occupations which are concerned with marketing, sales, distribution, merchandising, and management including functions such as selling, buying, pricing, promoting, financing and transporting. Included are emphasis on technical knowledge of products or services marketed, related communication and computation skills and abilities and attitudes associatd with human relations and private enterprise.

Employment in this cluster shows a growth rate greater than the all-occupations average, with sales clerks accounting for more than 40 percent of cluster employment and over one-half of all average annual openings. This very large cluster is expected to provide more than eighteen hundred (1800) employment opportunities annually. Institutional supply will account for only 33% of total demand. It is noted, however, that on-the-job training will be adequate preparation for most of these positions. Supplemental information indicates a sufficient number of applicants to meet current job service openings.



XV. MECHANICS, REPAIRERS, & INSTALLERS

11/27/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: HEATING,AIR COND & REFRIGERATION
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0680

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
REFRIG/A.C. & HEATING MECH	50080200	551	597	8.35	8	8	16
HOUSEHOLD APPLIANCE INSTAL	50082007	30	36	20.00	1	1	2
TOTALS		581	633	8.95	9	9	18

11/27/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: HEATING,AIR COND & REFRIGERATION
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0680

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
AIR CONDITIONING AND R	15.0501					109		109
ENVIRONMENTAL CONTROL	15.0599						3	3
HEATING, AIR CONDITING	47.0201		13		5	6	2	26
REFRIGERATION	47.0202					26	9	35
HEATING AND AIR CONDIT	47.0203				1			1
*** TOTALS			13		6	141	13	173

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: HEATING, AIR COND & REFRIGERATION DELAWARE CLUSTER # 0680

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
637.261-014	ENVIRONMENTAL-CONTROL-SYS	5	3	1.7
637.261-026	REFRIGERATION MECHANIC	2	1	2.0
637.664-010	ENVIRONMENTAL-CONTROL-SYS	1	1	1.0

NARRATIVE ANALYSIS FOR CLUSTER 0680

N0680 Heating, Air Conditioning and Refrigeration

This cluster includes occupations which design, install, maintain, operate, and repair small or medium air conditioning, heating, and refrigeration systems.

This cluster's employment is projected to grow at a slower rate than the average for all occupations for the 1984-1990 period. Average annual openings due to separations and openings due to growth are expected to be of equal size. Supply far exceeds demand. Apprentice completers will comprise over 80% of total supply.

11/27/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: AIRCRAFT MECHANICS
DELAWARE DEPARTMENT OF LABOR DELAWARE CLUSTER # 0690

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
AIRCRAFT MECHANICS	50080400	427	413	-3.28	-2	5	3
TOTALS		427	413	-3.27	-2	5	3

11/27/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: AIRCRAFT MECHANICS
PROGRAM COMPLETIONS DELAWARE CLUSTER # 0690

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
AIRCRAFT MECHANICS	47.0602		13			45		58
*** TOTALS			13			45		58

11/27/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION
[0] STATE OF DELAWARE
DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: AIRCRAFT MECHANICS
DELAWARE CLUSTER # 0630

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
621.381-014	AIRFRAME-AND-POWER-PLANT	15	1	15.0
621.381-014	MECHANIC, AIRCRAFT ACCESS	3	0	--
862.381-010	AIRCRAFT MECHANIC, PLUMBI	0	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0630

N0630 Aircraft Mechanics

This cluster includes occupations which maintain and repair aircraft.

This cluster's employment is expected to decline slightly over the six year period. Openings due to separations will provide some limited employment opportunities for this cluster. Supply far exceeds demand.

11/27/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T
[0] STATE OF DELAWARE
CLUSTER TITLE: AUTO & ENGINE MECHANICS
DELAWARE DEPARTMENT OF LABOR
DELAWARE CLUSTER # 0700

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
AUTOMOTIVE MECHANICS	50081001	2704	2876	6.36	29	59	88
GASOLINE ENGINE, MOWER REP	50083207	42	47	11.90	1	1	2
DIESEL MECHANICS	50083222	294	319	8.50	4	6	10
FUEL PUMP ATTENDANTS, LUBRI	61082605	868	787	-9.33	-14	9	-5
TIRE CHANGERS	61082606	186	194	4.30	1	2	3
TOTALS		4094	4223	3.15	21	77	98

11/27/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: AUTO & ENGINE MECHANICS
PROGRAM COMPLETIONS

DELAWARE CLUSTER # 0700

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP-RENT	HIGHER EDUC	TOTAL COMP
PUMP ATTENDANT	08.1206				1			1
AUTOMOTIVE TECHNOLOGY	15.0803						47	47
VEHICLE AND MOBILE EQU	47.0601						6	6
AUTOMOTIVE MECHANICS	47.0604	88	34	102	3	59	12	298
DIESEL ENGINE MECHANIC	47.0605	28	16				4	48
SMALL ENGINE REPAIR	47.0606	7	11		1	30		49
REPAIRS, OTHER	47.0699						1	1
*** TOTALS		123	61	102	5	89	70	450

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[O] STATE OF DELAWARE
DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: AUTO & ENGINE MECHANICS
DELAWARE CLUSTER # 0700

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
620.261-010	AUTOMOBILE MECHANIC	60	32	1.9
620.281-010	AIR-CONDITIONING MECHANIC	1	1	1.0
620.281-046	MAINTENANCE MECHANIC, AUT	1	0	--
625.281-010	DIESEL MECHANIC	13	2	6.5
625.281-034	SMALL-ENGINE MECHANIC	3	1	3.0
915.467-010	AUTOMOBILE-SERVICE-STATIO	21	12	1.8
915.687-018	LUBRICATION SERVICER	0	1	0.0

NARRATIVE ANALYSIS FOR CLUSTER 0700

N0700 Auto & Engine Repair

This cluster includes occupations which maintain and repair automobiles and vehicle engines such as buses, trucks, and construction equipment. Also includes diesel engines and electric generators; and small engines in mobile equipment such as lawn mowers and rotary tillers.

This cluster's employment is expected to grow at a slower than average rate for the period. Automotive mechanics comprise more than two-thirds of the total cluster's employment and will produce most of the new job opportunities. Supply far exceeds demand. Supplemental information indicates that job service applicants exceed current openings by a two-to-one ratio.

11/26/85

DELAWARE OCCUPATIONAL INFORMATION SYSTEM

D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: AUTO BODY REPAIR
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0710

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
AUTO BODY REPAIRERS	50080800	442	423	-4.30	-3	7	4
AUTO REPAIR SERVICE ESTIMA	50081003	14	14	0.00	0	0	0
GLASS INSTALLERS	50141801	45	49	8.89	1	0	1
PAINTERS, AUTOMOTIVE	61084201	169	184	8.88	3	4	7
TOTALS		670	670	0.00	1	11	12

11/26/85

DELAWARE OCCUPATIONAL INFORMATION SYSTEM

S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: AUTO BODY REPAIR
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0710

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
AUTOMOTIVE BODY REPAIR	47.0603	21	27			80		128
*** TOTALS		21	27			80		128

11/26/85

DELAWARE OCCUPATIONAL INFORMATION SYSTEM

SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: AUTO BODY REPAIR — DELAWARE CLUSTER # 0710

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
807.381-010	AUTOMOBILE-BODY REPAIRER	12	3	4.0

NARRATIVE ANALYSIS FOR CLUSTER 0710

N0710 Auto Body Repair

This cluster includes occupations which use special machines to restore damaged frames and body sections to their original shape. Some include glass replacement and fiberglass body repair.

This cluster's employment is expected to remain at its current level. Average annual openings due to separations provide some job opportunities in this cluster. Supply far exceeds demand. A large number of apprentice completers are included in the supply data.

11/26/85

DELAWARE OCCUPATIONAL INFORMATION SYSTEM

D E M A N D R E P O R T

[O] STATE OF DELAWARE

CLUSTER TITLE: ELECTRONIC OCCUPATIONS

DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0720

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
DATA PROCESSING MACH MECHA	50081400	66	153	131.82	15	1	16
OFFICE MACH SERVS/CASH REG	50082400	89	155	74.16	11	1	12
RADIO & TV SERVICERS REPA	50082600	91	97	6.59	1	0	1
ELECTROMEDICAL EQUIPMT REP	50083224	12	14	16.67	0	0	0
TROUBLE LOCATORS, TEST DESK	50121011	29	21	-27.59	-1	0	-1
WIRERS, ELECTRONIC	61080415	35	34	-2.86	0	1	1
TOTALS		322	474	47.20	26	3	29

11/26/85

DELAWARE OCCUPATIONAL INFORMATION SYSTEM

S U P P L Y R E P O R T

[O] STATE OF DELAWARE

CLUSTER TITLE: ELECTRONIC OCCUPATIONS

PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0720

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
ELECTRICAL & ELECT EQU	47.0101	1			35			36
BUSINESS MACHINE REPAI	47.0102					1		1
COMMUNICATIONS ELECTRO	47.0103				1			1
INDUSTRIAL ELECTRONICS	47.0105					13		13
ELECTRONIC EQUIPMENT R	47.0199	6	3			10		19
*** TOTALS		7	3		36	24		70

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: ELECTRONIC OCCUPATIONS DELAWARE CLUSTER # 0720

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
633.281-018	OFFICE-MACHINE SERVICER	2	0	--
720.281-018	TELEVISION-AND-RADIO REPA	5	0	--
726.130-010	SUPERVISOR, ELECTRONICS	0	0	--
726.381-010	ELECTRONICS INSPECTOR 1	1	0	--
726.684-022	ELECTRONICS INSPECTOR 2	3	0	--
822.281-018	MAINTENANCE MECHANIC, TEL	0	0	--
823.261-018	RADIO MECHANIC	1	0	--
828.281-010	ELECTRONICS MECHANIC	16	3	5.3

NARRATIVE ANALYSIS FOR CLUSTER 0720

N0720 Electronic Occupations

This cluster includes occupations concerned with operation, maintenance, and repair of business machines, communications equipment, major and small appliances, commercial vending machines, and related equipment.

This cluster's employment is expected to grow significantly faster than the average for all occupations. Average annual openings due to growth are expected to provide the majority of annual employment opportunities. Supply exceeds demand for this cluster.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: INDUSTRIAL MAINTENANCE
DELAWARE DEPARTMENT OF LABOR DELAWARE CLUSTER # 0730

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL GROWTH	OPS - SEP.	OPS - TOTAL
HYDROELECTRIC MACHINE MECH	50081804	56	55	-1.79	0	1	1
MAINTENANCE MECHANICS	50081807	1387	1561	12.55	29	31	60
INSTRUMENT REPAIRERS	50083221	255	239	-6.27	-3	6	3
TOTALS		1698	1855	9.25	26	38	64

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: INDUSTRIAL MAINTENANCE
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0730

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP-RENT	HIGHER EDUC	TOTAL COMP
INSTRUMENTATION TECHNO	15.0404						9	9
INDUSTRIAL MACHINERY R	47.0303				26	44		70
INSTRUMENT REPAIR	47.0401					2		2
*** TOTALS					26	46	9	81

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[O] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: INDUSTRIAL MAINTENANCE — DELAWARE CLUSTER # 0730

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
620.261-022	CONSTRUCTION-EQUIPMENT ME	3	2	1.5
626.281-010	MACHINE REPAIRER, MAINTEN	2	0	--
638.281-014	MAINTENANCE MECHANIC	43	13	3.3
710.281-026	INSTRUMENT MECHANIC	2	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0730

N0730 Industrial Maintenance

This cluster includes occupations that operate, maintain, and repair heavy duty equipment such as cranes, graders, bulldozers, tractors, trailers, concrete mixers, crawler-mounted shovels, and compressors. Also included are occupations that maintain and repair precision measuring equipment.

Employment for this cluster is expected to grow at a slower than average rate for the 1984-1990 period. Average annual openings due to separation and growth are nearly equal. Supply and demand are in balance. Supplemental information, however, indicates that there are three Job Service applicants for each opening.

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: MARINE MAINTENANCE
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0740

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
MARINE MECHANICS/REPAIRERS	30081806	38	39	2.63	0	1	1
SHIP ENGINEERS	30144026	8	7	-12.50	0	0	0
ORDINARY SEAMEN	61084803	58	53	-8.62	-1	0	-1
TOTALS		104	99	-4.80	-1	1	0

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: MARINE MAINTENANCE
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0740

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
MARINE PROPULSION TECH	15.0804					18		18
BARGE & BOAT OPERATION	49.0302				1			1
MARINE MAINTENANCE	49.0306					12		12
COMMERCIAL FISHING OPE	49.0603	1						1
*** TOTALS		1			1	30		32

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: MARINE MAINTENANCE — DELAWARE CLUSTER # 0740

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
806.381-046	SHIPFITTER(SHIP BLDG & RE	7	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0740

N0740 Marine Maintenance

This cluster includes those occupations that involve tending and operation of power and mechanical equipment on board ship. These occupations might also be concerned with using and maintaining lines, nets, navigational aids, radios, and electronic equipment; safely handling boats, maintaining decks, surfaces, engines, and power plants, and other skills that promote safety and survival at sea.

This small cluster is projected to decline slightly by 1990 and therefore few employment opportunities are expected. Supply far exceeds demand.

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: MISCELLANEOUS REPAIR
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0750

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
GAS & ELEC APPLIANCE REPAI	50082005	269	301	11.90	5	7	13
BICYCLE REPAIRERS	50083202	48	62	29.17	2	1	3
LOCKSMITHS	50083212	9	9	0.00	0	0	0
COIN MACHINE SERVICERS, REP	50083215	118	149	26.27	5	3	8
SEWING MACHINE MECHANICS	50083218	8	10	25.00	0	0	0
PINSETTER MECHANICS, AUTOMA	50083235	38	54	42.11	3	1	4
ALL OTHER MECHANICS & REPA	50083299	443	479	8.13	6	12	18
SHOE REPAIRERS	50143602	27	45	66.67	3	5	8
MUSICAL INSTRUMENT REPAIRE	50144826	13	10	-23.08	-1	0	-1
TOTALS		973	1119	15.01	23	29	52

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: MISCELLANEOUS REPAIR
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0750

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
APPLIANCE REPAIR	47.0106		15			20		35
SMALL APPLIANCE REPAIR	47.0108				33	6		39
*** TOTALS			15		33	26		74

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: MISCELLANEOUS REPAIR — DELAWARE CLUSTER # 0750

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
637.261-018	GAS-APPLIANCE SERVICER	3	0	--
638.361-022	PINSETTER MECHANIC, AUTOM	3	3	1.0
638.684-018	MAINTENANCE-MECHANIC HELP	2	1	2.0
639.281-014	COIN-MACHINE-SERVICE REPA	0	3	0.0
639.281-018	SEWING-MACHINE REPAIRER	0	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0750

N0750 Miscellaneous Repair

This cluster includes occupations which repair and service bicycles, locks, gas and electric appliances, sewing machines, automatic pin setting machines, shoes, musical instruments, and small appliances; as well as other mechanics and repairers not elsewhere classified.

The projected employment growth rate for this cluster is expected to be slightly higher than the average for all occupations. Annual openings due to separations will be somewhat higher than those due to growth. The supply/demand ratio appears to be nearly in balance. Current supplemental information also shows this supply and demand balance.

XVI. MEDICINE & HEALTH

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: CHIROPRACTORS
DELAWARE DEPARTMENT OF LABOR

DELAWARE CLUSTER # 0760

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL GROWTH	OPS - SEP.	OPS - TOTAL
CHIROPRACTORS	10100200	85	79	-7.06	-1	17	16
TOTALS		85	79	-7.05	-1	17	16

There is no institutional supply or supplemental information available for this cluster.

N0760 Chiropractor

This cluster includes a medical occupation concerned with treatment determined largely by the nervous system and the assumption that interference with this system impairs normal functions and lowers resistance to disease. Chiropractors treat patients primarily by manual manipulation of parts of the body, especially the spinal column.

This relatively small cluster is projected to have an employment decline of about 7% for the period. There is no institutional supply source in Delaware.

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: DENTAL ASSISTING
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0770

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
DENTAL ASSISTANTS	10120401	375	464	23.73	15	17	32
TOTALS		375	464	23.73	15	17	32

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: DENTAL ASSISTING
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0770

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
DENTAL ASSISTING	17.0101	3	27				10	40
*** TOTALS		3	27				10	40

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: DENTAL ASSISTING — DELAWARE CLUSTER # 0770

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
079.371-010	DENTAL ASSISTANT	12	2	6.0

NARRATIVE ANALYSIS FOR CLUSTER 0770

N0770 Dental Assisting

This cluster performs a variety of dental laboratory, clinical and office duties such as preparing materials for making impressions and restorations, exposing radiographs, and processing dental x-ray film as directed by the dentist.

Employment for this cluster is growing faster than the average rate for all occupations. In addition to openings due to growth, there will be numerous employment opportunities due to annual separations. Supply and demand are in relative balance.

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: DENTAL HYGIENE
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0780

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
DENTAL HYGIENISTS	10120402	253	318	25.69	11	9	20
TOTALS		253	318	25.69	11	9	20

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: DENTAL HYGIENE
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0780

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
DENTAL HYGIENE	17.0102						10	10
*** TOTALS							10	10

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION
[0] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: DENTAL HYGIENE — DELAWARE CLUSTER # 0780

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
078.361-010	DENTAL HYGIENIST	0	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0780

N0780 Dental Hygiene

This cluster performs works under direction of a dentist providing direct patient care. They remove deposits and stains from patients' teeth, expose and develop dental x-ray films, and perform various other preventive and therapeutic services.

Employment in this cluster is growing at a rate considerably faster than the average growth rate for all occupations. Average annual openings due to separations are projected to be another significant source of employment opportunities in this cluster. Demand for dental hygienists exceeds institutional supply by a wide margin.

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: DENTAL LAB TECHNOLOGY
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0790

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
DENTAL LAB TECHNICIANS	50141200	59	76	28.81	3	4	7
TOTALS		59	76	28.81	3	4	7

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: DENTAL LAB TECHNOLOGY
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0790

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
DENTAL LABORATORY TECH	17.0103		17			10		27
*** TOTALS			17			10		27

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[O] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: DENTAL LAB TECHNOLOGY — DELAWARE CLUSTER # 0790

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
712.381-018	DENTAL-LABORATORY TECHNIC	4	0	--
712.664-010	DENTAL CERAMIST ASST.	1	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0790

N0790 Dental Lab Technicians

This cluster includes occupations involving precision construction and repair of dental appliances and apparatus, orthodontic appliances, and other medical appliances, according to medical prescriptions.

Employment in this small cluster is expected to grow at a rate paralleling Cluster 780 (Dental Hygiene) and a rate considerable faster than the growth rate for all occupations. Average annual openings due to separation are expected to provide as many annual job openings as job growth. Institutional supply far exceeds demand for this cluster.

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: DENTISTS
DELAWARE DEPARTMENT OF LABOR DELAWARE CLUSTER # 0800

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL GROWTH	OPS SEP.	OPS TOTAL
DENTISTS	10100400	522	563	7.85	7	8	15
TOTALS		522	563	7.85	7	8	15

There is no institutional supply or supplemental information available for this cluster.

N0800 Dentists

This cluster includes occupations which involve diagnosis, prevention, and treatment of ailments or abnormalities of gums or teeth and oral surgery.

This cluster's employment is expected to grow at a slower rate than the average for all occupations. Average annual openings are expected to be minimal. As there are no local dental schools, there is no institutional supply data for this cluster.

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

(0) STATE OF DELAWARE
CLUSTER TITLE: DIETICIANS
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0810

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
DIETITIANS & NUTRITIONISTS	10100600	83	102	22.89	3	5	8
TOTALS		83	102	22.89	3	5	8

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

(0) STATE OF DELAWARE
CLUSTER TITLE: DIETICIANS
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0810

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
CONSUMER SCIENCE	19.0402						28	28
FOOD SCIENCE/HUMAN NUT	19.0501						6	6
FOOD SCI & HUMAN NUTRI	19.0502						4	4
DIETETICS	19.0503						29	29
HUMAN NUTRITION	19.0504						5	5
*** TOTALS							72	72

There is no supplemental information available for this cluster.

N0810 Dietitians

This cluster includes occupations involving organizing, planning, and conducting food service or nutritional programs to assist in promotion of health and control of disease. May administer activities of a department providing quantity food service.

This small cluster is projected to grow at a faster than average rate as compared to all occupations. Average annual openings due to separation also provide some employment opportunities in this cluster. Supply far exceeds demand. It should be noted that higher education graduates in this cluster might find employment in other related fields.

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: EMERGENCY MED. TECHNOLOGY
DELAWARE DEPARTMENT OF LABOR DELAWARE CLUSTER # 0820

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	PROJ 90	% CHANGE	-- AV. ANNUAL GROWTH	SEP	OPS - TOTAL
EMERGENCY MEDICAL TECHNICI	10121008	84	82	-2.38	0	2	2
AMBULANCE DRIVERS/AMB ATTE	62002001	46	50	8.70	1	2	3
TOTALS		130	132	1.54	1	4	5

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: EMERGENCY MED. TECHNOLOGY
PROGRAM COMPLETIONS DELAWARE CLUSTER # 0820

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
EMERG. MED. TECH., AMBU	17.0205			8				8
EMERG. MED. TECH/PARAM	17.0206			8			60	68
*** TOTALS				16			60	76

There is no supplemental information available for this cluster.

N0820 Emergency Medical Technicians

This cluster includes occupations involved in the emergency treatment of various cardiopulmonary problems, using cardiac resuscitation and other emergency equipment; airway, fracture, and hemorrhage management control; emergency childbirth; and special care of patients exposed to heat, cold, radiation, or contagious disease.

Employment in this small cluster is projected to grow at a slower than average rate. Average annual openings due to separation account for the majority of openings. Although supply appears to far outnumber demand, many of the trained completers in this cluster are volunteer members of fire companies and are not reflected in demand data.

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: HEALTH/HUMAN SERVICES
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0830

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL GROWTH	OPS - SEP.	OPS - TOTAL
NURSES AIDES/ORDERLIES	70061010	3997	4995	24.97	166	155	321
PSYCHIATRIC AIDE	70061011	449	576	28.29	21	18	39
MEDICAL ASSISTANTS	70061013	251	303	20.72	9	10	19
SOCIAL SERVICE AIDES	70083000	202	242	19.80	7	10	17
TOTALS		4899	6116	24.84	203	193	396

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: HEALTH/HUMAN SERVICES
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0830

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
HOME HEALTH AIDE	17.0404				8			8
MENTAL HEALTH/HUMAN SE	17.0406						45	45
MEDICAL ASSISTING	17.0503	20	15				8	43
GERIATRIC AIDE	17.0601				64			64
NURSING ASSISTING	17.0602	8			4	12		24
HOMEMAKER'S AIDE	20.0606				1			1
*** TOTALS		28	15		77	12	53	185

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: HEALTH/HUMAN SERVICES — DELAWARE CLUSTER # 0830

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
079.367-010	MEDICAL ASSISTANT	10	0	--
355.377-014	PSYCHIATRIC AIDE	2	0	--
355.674-014	NURSE AIDE	200	56	3.6
355.674-018	ORDERLY	3	0	--

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NARRATIVE ANALYSIS FOR CLUSTER 0830

N0830 Health/Human Services

This cluster includes occupations which assist nursing and mental health personnel in the care and treatment of the mentally ill, aged, drug-addicted, and physically handicapped. It also includes providing support functions in such areas as pharmaceuticals, central supply, medical records, and the admissions/discharge of patients.

Employment in this cluster is expected to grow at a significantly faster rate than the average rate for all occupations. Annual average openings in this cluster are expected to be quite large and relatively balanced between openings due to growth and openings due to separation. Demand will be substantially greater than institutional supply. Supplemental job service data does not currently reflect this same demand/supply imbalance. It shows a surplus of applicants to openings by a four-to-one margin.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: MEDICAL LABORATORY TECHNOLOGY
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0840

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
MEDICAL LAB TECHNOLOGISTS	10120201	170	182	7.06	2	6	8
BIOCHEMISTRY TECHNOLOGISTS	10120202	42	54	28.57	2	2	4
MICROBIOLOGY TECHNOLOGISTS	10120203	37	47	27.03	2	1	3
CYTOTECHNOLOGISTS	10120204	8	10	25.00	0	0	0
HISTOLOGIC TECHNOLOGISTS	10120205	15	19	26.67	1	1	2
MEDICAL LAB ASSISTANTS	10120206	202	213	5.45	2	7	9
BLOOD BANK TECH SPECILAIST	10120207	141	176	24.82	6	5	11
TOTALS		615	701	13.98	15	22	37

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: MEDICAL LABORATORY TECHNOLOGY
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0840

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
CLINICAL LABORATORY AS	17.0305		40					40
MEDICAL LABORATORY TEC	17.0309						2	2
MEDICAL TECHNOLOGY	17.0310						23	23
MEDICAL LABORATORY TEC	17.0399						1	1
*** TOTALS			40				26	66

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: MEDICAL LABORATORY TECHNOLOGY DELAWARE CLUSTER # 0840

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
078.361-014	MEDICAL TECHNOLOGIST	2	0	--
078.381-014	MEDICAL-LABORATORY TECHNI	6	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0840

N0840 Medical Laboratory Technology

This cluster includes occupations that carry out technical functions to obtain data for use in diagnosis, treatment, and control of diseases under the supervision of medical specialists. Includes use of technical equipment and the administration of medical and/or chemical agents.

This cluster's employment is growing at approximately the same rate as the average rate for all occupations. Average annual openings due to separation are expected to provide the major portion of the annual employment opportunities. Insititutional supply is significantly higher than demand for this cluster.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: MISC. HEALTH OCCUPATIONS
DELAWARE DEPARTMENT OF LABOR DELAWARE CLUSTER # 0850

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
SURGICAL TECHNICIANS	10121002	62	79	27.42	3	2	5
PROSTHETISTS, ORTHOTISTS	10121005	5	6	20.00	0	0	0
EKG TECHNICIANS	10121006	46	56	21.74	2	1	3
EEG TECHNICIANS	10121007	13	16	23.08	1	0	1
PHARMACY HELPERS	10121009	142	173	21.83	5	6	11
ALL OTHER MED & DENT TECHN	10121099	160	183	14.37	3	3	6
OPTICIANS, DISP. &/OR OPTI	30143002	22	28	27.27	1	0	1
ORTHOPEDIC CAST SPECIALIST	70061012	10	13	30.00	1	0	1
TOTALS		460	554	20.43	16	12	28

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: MISC. HEALTH OCCUPATIONS
PROGRAM COMPLETIONS

DELAWARE CLUSTER # 0850

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
ALLIED HEALTH, OTHER	17.9999	76	2					78
HEALTH SERVICES, OTHER	18.9999						1	1
*** TOTALS		76	2				1	79

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[O] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: MISC. HEALTH OCCUPATIONS — DELAWARE CLUSTER # 0850

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
716.382-018	PRECISION-LENS GRINDER	0	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0850

N0850 Misc. Health Occupations

This cluster includes occupations involving principles and practices of clinical laboratory procedures not elsewhere classified.

Employment in this sector is expected to grow at a faster rate than the average rate for all occupations. Average annual openings due to growth are expected to slightly outnumber annual openings due to separation. Supply in this cluster far exceeds demand.

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: OPTOMETRISTS
DELAWARE DEPARTMENT OF LABOR

DELAWARE CLUSTER # 0860

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
OPTOMETRISTS	10101000	40	38	-5.00	0	1	1
TOTALS		40	38	-4.99	0	1	1

There is no institutional supply or supplemental information available for this cluster.

N0860 Optometrists

This cluster includes occupations involving examining eyes to determine visual efficiency and performance by means of instrumentation and observation and prescribing corrective procedures utilizing lenses, prisms, or orthotic exercises.

This small cluster is expected to decline by about 5% by 1990. Average annual openings are expected to be minimal. No identifiable institutional supply is available for this cluster.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: PHARMACISTS
DELAWARE DEPARTMENT OF LABOR DELAWARE CLUSTER # 0870

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
PHARMACISTS	10101200	290	362	24.83	12	18	30
TOTALS		290	362	24.83	12	18	30

There is no institutional supply data available for this cluster

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: PHARMACISTS DELAWARE CLUSTER # 0870

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
074.161-010	PHARMACIST	2	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0870

N0870 Pharmacists

This cluster includes occupations involving compounding and dispensing medications following prescriptions of physicians, dentists, or other practitioners.

This cluster's employment is projected to grow at a substantially faster rate than the average rate for all occupations. A substantial number of average annual openings due to separation is expected. There is no local institutional supply; however, completers from nearby states are expected to fill demand.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: PHYSICAL THERAPISTS
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0880

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
PHYSICAL THERAPISTS	10101804	125	156	24.80	5	3	8
TOTALS		125	156	24.80	5	3	8

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: PHYSICAL THERAPISTS
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0880

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
PHYSICAL THERAPY	17.0813						35	35
*** TOTALS							35	35

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION
DELAWARE DEPARTMENT OF LABOR

[0] STATE OF DELAWARE
CLUSTER TITLE: PHYSICAL THERAPISTS — DELAWARE CLUSTER # 0880

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
076.121-014	PHYSICAL THERAPIST	0	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0880

N0880 Physical Therapists

This cluster includes occupations involving restoring of functions and prevention of disabilities following disease, injury, or loss of body parts.

This small cluster's employment is expected to grow at a rate substantially above the average rate for all occupations. A relatively small number of annual openings is expected to come primarily from openings due to growth. Supply will exceed demand for this cluster in Delaware.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: PHYSICIANS
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0890

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
PHYSICIANS &/OR SURGEONS	10101400	1336	1593	19.24	43	20	63
TOTALS		1336	1593	19.24	43	20	63

There is no institutional supply or supplemental information available for this cluster.

N0890 Physicians

This cluster includes occupations involving diagnosis, prevention, and treatment of human diseases and injuries. Includes conducting medical examination, prescribing and giving treatment, and performing surgical operations. May conduct research in the causes, transmission, and control of disease and other ailments.

Employment in this cluster is expected to grow at a rate slightly above the rate for all occuaptions. A substantial number of average annual openings will occur due to growth. No identifiable institutional source of supply exists in Delaware. Neighboring states are expected to generate the completers in this area.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: PODIATRISTS
DELAWARE DEPARTMENT OF LABOR DELAWARE CLUSTER # 0900

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
PODIATRISTS	10101600	118	126	6.78	1	1	2
TOTALS		118	126	6.78	1	1	2

There is no institutional supply or supplemental information available for this cluster.

N0900 Podiatrists

This cluster includes occupations involving diagnosing, prescribing for, and treating ailments, diseases, defects, or disabilities of the human foot.

This small cluster's employment is expected to grow at a a slower than average rate. Average annual openings are expected to be minimal and no identifiable source of supply exists for this cluster.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: PRACTICAL NURSING
DELAWARE DEPARTMENT OF LABOR

DELAWARE CLUSTER # 0910

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL GROWTH	OPS - SEP.	OPS - TOTAL
LICENSED PRACTICAL NURSES	10121010	1555	1998	28.49	74	80	154
TOTALS		1555	1998	28.49	74	80	154

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: PRACTICAL NURSING
PROGRAM COMPLETIONS

DELAWARE CLUSTER # 0910

- PROGRAM - TITLE	CIP CODE	PRI/PUB-VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
PRACTICAL NURSING	17.0605	11				55	66
*** TOTALS		11				55	66

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[O] STATE OF DELAWARE
DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: PRACTICAL NURSING
DELAWARE CLUSTER # 0910

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
079.374-014	NURSE, LICENSED PRACTICAL	8	0	--
354.374-010	NURSE, PRACTICAL	4	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0910

NO910 Practical Nursing

This cluster includes occupations which work under the supervision of a physician, nurse supervisor, or other qualified nursing staff member in providing nursing care to patients in hospitals, sanitariums, clinics, private homes, or other places by administering medications and treatments, assisting during treatment and examination of patients, or performing related auxiliary services.

Employment in this cluster is expected to grow at a rate substantially greater than the all-occupations average. Average annual openings will be significant, and will be evenly distributed between growth and separation. Demand exceeds supply, partly reflecting changes in Nursing curricula.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: PROF. NURSING SERVICES
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0920

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
NURSES, PROFESSIONAL	10100800	4132	5282	27.83	192	164	356
TOTALS		4132	5282	27.83	192	164	356

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: PROF. NURSING SERVICES
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0920

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
NURSING	18.1101						340	340
*** TOTALS							340	340

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: PROF. NURSING SERVICES — DELAWARE CLUSTER # 0920

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
075.374-010	NURSE, GENERAL DUTY	2	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0920

N0920 Professional Nursing

This cluster includes occupations that provide care for sick, disabled, infirm, or other individuals, including the administering of medications and treatments, assisting a physician during treatments and examinations, and planning education for health maintenance.

Employment in this cluster is expected to grow at a rate substantially greater than the average for all occupations. An extremely large number of annual openings will be a result primarily of openings due to growth. Supply and demand are in close balance for this cluster.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: RADIOLOGY
DELAWARE DEPARTMENT OF LABOR

DELAWARE CLUSTER # 0930

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
X-RAY TECHNICIANS	10120801	304	357	25.98	9	7	16
RADIOLOGIC TECHS & NUC MED	10120804	65	79	21.54	2	2	4
TOTALS		369	436	24.91	11	9	20

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: RADIOLOGY
PROGRAM COMPLETIONS

DELAWARE CLUSTER # 0930

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
MEDICAL RADIATION DOSI	17.0207						11	11
NUCLEAR MEDICINE TECHN	17.0208						6	6
*** TOTALS							17	17

There is no supplemental information available for this cluster.

N0930 Radiology

This cluster includes occupations which use equipment and medical materials for diagnostic and therapeutic purposes by applying roentgen rays and radioactive substances; also may prepare and administer radioisotopes.

This cluster's employment is expected to grow at a substantially greater rate than the average for all occupations. Average annual openings will represent a balance between growth and separation. Supply and demand are in balance for this cluster.

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: REHABILITATION SERVICES
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0940

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
OCCUPATIONAL THERAPISTS	10101801	56	78	39.29	4	1	5
MANUAL ARTS, MUSIC, REC THER	10101802	63	76	20.63	2	1	3
SPEECH & HEARING CLINICIAN	10101803	110	121	10.00	2	2	4
ALL OTHER THERAPISTS	10101810	73	92	26.03	3	2	5
PHYSICAL THERAPY TECHNICIA	10121012	70	87	24.29	3	2	5
OCCUPATIONAL THERAPY AIDES	70060400	30	38	26.67	1	1	2
TOTALS		402	492	22.39	15	9	24

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: REHABILITATION SERVICES
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0940

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
MUSIC THERAPY	17.0806						3	3
OCCUPATIONAL THERAPY	17.0807						3	3
OCCUPATIONAL THERAPY A	17.0809				1			1
*** TOTALS					1		5	6

There is no supplemental information available for this cluster.

N0940 Rehabilitation Services

This cluster includes occupations which work under the direction of a physician or other appropriate specialist in assisting handicapped persons to overcome or compensate for any loss of function and in restoring the individual's physical health.

Employment in this cluster is expected to grow at a rate substantially greater than the all-occupations average, reflecting the overall growth trend in the health services industry. Average annual openings due to growth far exceed those due to separation. Demand considerably exceeds supply in this relatively small cluster.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: RESPIRATORY THERAPY
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0950

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL GROWTH	OPS - SEP.	OPS - TOTAL
INHALATION THERAPISTS	10101809	77	98	27.27	4	2	6
TOTALS		77	98	27.27	4	2	6

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: RESPIRATORY THERAPY
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0950

- PROGRAM - TITLE	CIP CODE	PRI/PUB VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
RESPIRATORY THERAPY	17.0818					8	8
*** TOTALS						8	8

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: RESPIRATORY THERAPY — DELAWARE CLUSTER # 0950

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
079.361-010	RESPIRATORY THERAPIST	0	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0950

N0950 Respiratory Therapy

This cluster includes occupations which administer respiratory therapy care and life support to patients with heart and lung difficulties; and provide technical assistance before, during, and after an operation.

Although employment in this cluster shows a strong growth pattern reflective of the general trend in the health services industry, the number of average annual openings will be small. Supply and demand are in balance.

XVII. OFFICE OCCUPATIONS, GENERAL

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: GENERAL CLERICAL & TYPING
DELAWARE DEPARTMENT OF LABOR

DELAWARE CLUSTER # 0360

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL GROWTH	OPS - SEP.	OPS - TOTAL
TYPISTS	40020600	3406	3926	15.27	87	135	222
DUPLICATING MACHINE OPERAT	40040800	26	41	57.69	3	1	4
ALL OTHER OFFICE MACHINE O	40041400	510	564	10.59	9	17	26
DESK CLERKS	40061603	213	233	9.39	3	8	11
ORDER CLERKS	40061604	557	606	8.80	8	22	30
CIRCULATION CLERKS	40061605	26	27	3.85	0	1	1
TELEPHONE AD TAKERS, NEWSPA	40061607	21	22	4.76	0	1	1
DESK CLERK, BOWLING FLOOR	40061608	49	70	2.00	42	4	46
ADJUSTMENT CLERKS	40062208	613	979	59.71	61	25	86
CLAIMS CLERKS	40062210	276	404	46.38	21	11	32
FILE CLERKS	40062601	840	1008	20.00	28	31	59
PERSONNEL CLERKS	40062602	253	292	15.42	7	9	16
MESSENGERS, BANK	40063601	14	24	71.43	2	1	3
MESSENGERS	40063602	120	153	27.50	6	9	15
METER READERS	40063800	95	94	-1.05	0	2	2
RECEPTIONISTS	40064802	1105	1339	21.18	39	47	86
SWITCHBD OPS/RECEPTIONISTS	40064803	425	520	22.35	16	18	34
ACTUARIAL CLERKS	40065204	12	16	33.33	1	1	2
STATISTICAL CLERKS	40065211	176	208	18.18	5	7	12
WORKSHEET CLERKS	40065212	19	24	26.32	1	1	2
COURT CLERKS	40065216	44	43	-2.27	0	2	2
INSURANCE CHECKERS	40065217	68	93	36.76	4	3	7
PROCUREMENT CLERKS	40065402	118	127	7.63	2	3	5
CANCELLATION CLERKS	40066805	9	12	33.33	1	0	1
SERVICE REPRESENTATIVES	40066808	238	244	2.52	1	7	8
GENERAL CLERKS, OFFICE	40066811	8005	8966	12.00	160	251	411
IN-FILE OPERATORS	40066812	10	14	40.00	1	0	1
POLICY CHANGE CLERKS	40066815	61	84	37.70	4	2	6
REAL ESTATE CLERKS	40066818	75	73	-2.67	0	2	2
SERVICE CLERKS	40066824	179	194	8.38	3	6	9
TITLE SEARCHERS	40066825	18	23	27.78	1	1	2
TRAFFIC CLERKS	40066826	10	11	10.00	0	0	0
RATE CLERKS, FREIGHT	40066838	22	22	0.00	0	1	1
MORTGAGE CLOSING CLERKS	40066842	17	23	35.29	1	1	2
INSURANCE CLERKS	40066845	11	19	72.73	1	0	1
INSURANCE CLERKS, MEDICAL	40066846	165	208	26.06	7	6	13
LICENSE CLERKS	40066848	16	15	-6.25	0	0	0
ALL OTHER OFFICE CLERICAL	40066898	2600	3056	17.54	76	75	151
ALL OTHER PLANT CLERICAL W	40066899	667	686	2.85	3	20	23
TOTALS		21089	24463	16.00	604	731	1335

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: GENERAL CLERICAL & TYPING
PROGRAM COMPLETIONS DELAWARE CLUSTER # 0960

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP-RENT	HIGHER EDUC	TOTAL COMP
TYPING, GENERAL OFFICE	07.0701	368			170		1	539
TYPING II	07.0702	7			1		13	21
DUPLICATING MACHINE OP	07.0704					14		14
GENERAL OFFICE CLERK	07.0705	100			2			102
RECEPTIONIST AND COMMU	07.0707	52			2			54
TYPING	07.0710				10	55		65
TYPING, GENERAL OFFICE	07.0799	1	3					4
BUSINESS AND OFFICE, O	07.9999	41					1	42
*** TOTALS		569	3		185	69	15	841

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: GENERAL CLERICAL & TYPING DELAWARE CLUSTER # 0960

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
203.362-010	CLERK-TYPIST	142	52	2.7
203.582-066	TYPIST	4	1	4.0
205.362-014	EMPLOYMENT CLERK	1	0	--
205.362-018	HOSPITAL-ADMITTING CLERK	1	0	--
206.362-010	FILE CLERK 1	14	0	--
206.367-014	FILE CLERK 2	6	0	--
209.387-010	CODING CLERK	1	0	--
209.562-010	CLERK, GENERAL	223	189	1.2
209.687-010	CHECKER 2	11	0	--
214.362-022	INSURANCE CLERK	1	0	--
219.362-010	ADMINISTRATIVE CLERK	51	3	17.0
237.367-038	RECEPTIONIST	63	10	6.3
238.362-010	HOTEL CLERK	7	3	2.3
245.362-014	WARD CLERK	2	0	--
912.367-014	TRANSPORTATION AGENT	2	0	--

NARRATIVE ANALYSIS FOR CLUSTER 0960

N0960 General Clerical/Typing

This cluster includes occupations that record, duplicate, and retrieve data, including classifying, sorting, and filing correspondence, records, and other data using standard office procedures and business machines. It involves typing letters, reports, stencils, forms, addresses or other straight copy material from rough draft, corrected copy, or voice recording.

Employment growth for this large cluster represents about 8 percent of all new jobs due to growth for the period. The industries responsible for this growth are, primarily, the financial and services sectors. New jobs due to separation will exceed those due to growth. Demand is greater than supply, suggesting the possibility of additional training in this area. Current supplemental information, however, indicates a short-term excess of supply.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: SECRETARY-STENOGRAPHIC
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0970

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL GROWTH	OPS - SEP.	OPS - TOTAL
SECRETARIES	40020200	9421	12072	28.14	442	387	829
STENOGRAPHERS	40020400	977	869	-11.05	-18	39	21
TOTALS		10398	12941	24.46	424	426	850

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: SECRETARY-STENOGRAPHIC
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 0970

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
SECRETARIAL AND RELATE	07.0601	118	20					138
EXECUTIVE SECRETARIAL	07.0603						169	169
MEDICAL SECRETARIAL	07.0605		19				37	56
SECRETARIAL	07.0606			409			1	410
STENOGRAPHIC	07.0607	9					13	22
WORD PROCESSING	07.0608	19	3			16	54	92
SHORTHAND	07.0699					10		10
*** TOTALS		146	42	409		26	274	897

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: SECRETARY-STENOGRAPHIC — DELAWARE CLUSTER # 0970

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
201.362-010	LEGAL SECRETARY	4	8	0.5
201.362-014	MEDICAL SECRETARY	4	2	2.0
201.362-030	SECRETARY	63	20	3.2
202.362-014	STENOGRAPHER	0	1	0.0

NARRATIVE ANALYSIS FOR CLUSTER 0970

N0970 Secretarial/Stenographic

This cluster includes occupations concerned with scheduling appointments, giving information to callers, recording oral material and transcribing it in the form of written records or communications, and performing other general office work to relieve officials of clerical work and administrative detail.

This cluster shows an above-average rate of growth, but while secretaries are projected to grow very substantially, stenographers are expected to decline by more than 11 percent. Average annual openings due to separation equal those due to growth. Supply and demand are in relative balance.

XVIII. PROFESSIONAL OCCUPATIONS, OTHER

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: CLERGY
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 0980

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
CLERGY	10241000	654	825	26.15	29	40	69
DIRECTORS, REL ACT &/OR REL	10241200	82	109	32.93	5	6	11
TOTALS		736	934	26.90	34	46	80

There is no institutional supply or supplemental information available for this cluster.

N0980 Clergy

This cluster includes occupations involving conducting religious worship and performing other spiritual functions associated with beliefs and practices of religious faith or denomination as delegated by ordinance, license, or other authorization and providing spiritual and moral guidance, counseling and assistance to members.

Employment in this cluster is growing at a rate greater than the all-occupations average . Openings due to separation offer the majority of opportunities in this cluster. No identifiable source of supply exists in the state.

11/26/85

DELAWARE OCCUPATIONAL INFORMATION SYSTEM

D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: EDUCATION
DELAWARE DEPARTMENT OF LABOR

DELAWARE CLUSTER # 0990

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
TEACHERS, ADULT EDUCATION	10201000	492	671	36.38	30	13	43
TEACHERS, VOC. ED. OR TRAI	10202001	146	183	25.34	6	3	9
TEACHERS, COLLEGE	10202002	378	897	-8.28	-14	19	5
GRADUATE ASSISTANTS	10202003	315	268	-14.92	-8	6	-2
PROFESSORS	10202005	220	193	-12.27	-5	4	-1
ASSOCIATE PROFESSOR	10202006	293	256	-12.63	-6	6	0
ASSISTANT PROFESSOR	10202007	278	243	-12.59	-6	5	-1
LECTURERS	10202008	334	369	10.48	6	7	13
ATHLETIC COACHES	10202009	15	16	6.67	0	0	0
TEACHERS, PRE-SCHOOL/ELEME	10203002	3722	4930	32.46	201	168	369
TEACHERS, SECONDARY	10205000	4426	4831	9.15	68	123	191
DANCE INSTRUCTORS	10206001	41	53	29.27	2	1	3
INSTRUCTORS, CORRESP. SCH.	10206003	7	8	14.29	0	0	0
ALL OTHER TEACHERS	10206099	70	84	20.00	2	2	4
SPORTS INSTRUCTORS	10220403	173	236	36.42	11	3	14
VOCATIONAL & ED COUNSELORS	10243600	650	757	16.46	18	30	48
CURRICULUM SPECIALISTS	10243801	56	62	10.71	1	0	1
PRINCIPALS	20041601	230	254	10.43	4	16	20
ASST. PRINCIPALS	20041602	138	190	37.68	9	11	20
SUPERINTENDENTS	20041603	116	128	10.34	2	8	10
ADMISSIONS EVALUATORS	40062603	29	32	10.34	1	1	2
TEACHERS AIDES/EDUC ASSIST	40065600	1196	1378	15.22	30	28	58
TOTALS		13925	16039	15.18	352	454	806

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM

S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: EDUCATION
PROGRAM COMPLETIONS

DELAWARE CLUSTER # 0330

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP-RENT	HIGHER EDUC	TOTAL COMP
EDUCATION, GENERAL	13.0101						6	6
CURRICULUM & INSTRUCTI	13.0301						40	40
EVALUATION & RESEARCH	13.0601						1	1
SCHOOL PSYCHOLOGY	13.0801						5	5
SOCIAL FOUNDATIONS	13.0901						1	1
SPECIAL EDUCATION, GEN	13.1001						18	18
EDUCATION OF GIFTED	13.1004						10	10
STUDENT COUNSELING & P	13.1101						29	29
ELEMENTARY EDUCATION	13.1202						98	98
PRE-ELEMENTARY EDUCATI	13.1204				1		19	20
AGRICULTURAL EDUCATION	13.1301						3	3
ART EDUCATION	13.1302						10	10
BUSINESS EDUCATION	13.1303						3	3
ENGLISH EDUCATION	13.1305						10	10
FOREIGN LANGUAGES EDUC	13.1306						4	4
HEALTH EDUCATION	13.1307						1	1
HOME ECONOMICS EDUCATI	13.1308						3	3
MARKETING & DISTRIBUTI	13.1310						6	6
MATHEMATICS EDUCATION	13.1311						2	2
MUSIC EDUCATION	13.1312						6	6
PHYSICAL EDUCATION	13.1314						49	49
READING EDUCATION	13.1315						4	4
SCIENCE EDUCATION	13.1316						7	7
SOCIAL STUDIES EDUCATI	13.1318						5	5
TEACHER EDUCATION, SPE	13.1399						20	20
EDUCATION, OTHER	13.9999						9	9
*** TOTALS					1		369	370

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM

SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: EDUCATION — DELAWARE CLUSTER # 0330

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
045.107-010	COUNSELOR	18	4	4.5
090.227-010	FACULTY MEMBER, COLLEGE O	7	0	--
091.227-010	TEACHER, SECONDARY SCHOOL	19	0	--
092.227-010	TEACHER, ELEMENTARY SCHOO	24	0	--
249.367-074	TEACHER AIDE 2	15	10	1.5

NARRATIVE ANALYSIS FOR CLUSTER 0990

N0990 Education

This cluster includes occupations involving theories, methods, and techniques of designing, implementing, and evaluating organized learning activities for students at all levels, including preschool, elementary, secondary, postsecondary, adult education, and special education. Also includes planning, organizing, developing, staffing, coordinating, managing, researching, evaluating, financing, and controlling educational institutions and agencies.

Employment in this cluster is growing at about the same rate as the average for all occupations. However, pre-school/elementary and adult education teachers are expected to grow at a considerably faster rate than the average for all occupations. An extremely large number of annual openings are expected, with more than one-half of these a result of separations. Demand exceeds supply by about two to one, with the most notable shortfall in pre-school and elementary education.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: LAW OCCUPATIONS
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 1000

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
JUDGES	10242001	37	36	-2.70	0	2	2
MAGISTRATES	10242002	81	78	-3.70	-1	3	2
LAW CLERKS	10242201	111	126	13.51	3	4	7
LAWYERS	10242202	1718	1883	9.60	28	61	89
PARALEGAL PERSONNEL	10242203	161	272	68.94	19	7	26
TOTALS		2108	2395	13.61	49	77	126

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: LAW OCCUPATIONS
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 1000

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
LAW	22.0101			238				238
LEGAL ASSISTING/PARALE	22.0103						10	10
*** TOTALS				238			10	248

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11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: LAW OCCUPATIONS — DELAWARE CLUSTER # 1000

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
110.107-010	LAWYER	0	0	--

NARRATIVE ANALYSIS FOR CLUSTER 1000

N1000 Law

This cluster includes occupations concerned with the application of principles related to statute law and its administration. It includes presiding over judicial proceedings, conducting litigations, drawing up legal documents, giving legal advice, and performing other legal functions.

Employment in this cluster is growing at about the same rate as the average for all occupations. Annual separations will account for more than 60% of total openings over the period. Supply exceeds demand overall, except for an anticipated shortfall in paralegal personnel.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: LIBRARIANS
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 1010

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
MEDICAL RECORD LIBRARIANS	10120600	26	32	23.08	1	2	3
TECHNICAL ASSISTANTS, LIBR	10141405	147	160	8.84	2	2	4
LIBRARIANS	10242401	315	313	-.63	0	10	10
AUDIO VISUAL SPECIALISTS	10242402	19	21	10.53	0	1	1
LIBRARY ASSISTANTS	40063000	239	259	8.37	3	8	11
TOTALS		746	785	5.23	6	23	29

There is no institutional supply data available for this cluster

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: LIBRARIANS — DELAWARE CLUSTER # 1010

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
100.127-014	LIBRARIAN	1	0	--

NARRATIVE ANALYSIS FOR CLUSTER 1010

N1010 Librarians

This cluster includes occupations involving administering libraries and performing related library services; including selecting, acquiring, cataloging, classifying, circulating, and maintaining library materials; furnishing reference, bibliographical and readers' advisory services.

Employment in this cluster is expected to grow at a slower rate than average for all occupations. Most of the annual openings will be attributable to separations. No identifiable source of institutional supply exists in the State.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: MATHEMATICIANS
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 1020

OCCUPATION TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	AV. ANNUAL OPS -- GROWTH	AV. ANNUAL OPS -- SEP.	AV. ANNUAL OPS -- TOTAL
ACTUARIES	10060200	15	20	33.33	1	1	2
ALL OTHER MATH SCIENTISTS	10060403	178	190	6.74	2	1	3
STATISTICIANS	10060600	49	52	6.12	1	1	2
TOTALS		242	262	8.26	4	3	7

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: MATHEMATICIANS
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 1020

PROGRAM TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP-RENT	HIGHER EDUC	TOTAL COMP
MATHEMATICS	27.0101						38	38
STATISTICS	27.0501						7	7
MATHEMATICS, OTHER	27.9999						7	7
*** TOTALS							52	52

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There is no supplemental information available for this cluster.

N1020 Mathematicians

This cluster includes occupations concerned with the development of methodology in mathematical concepts, mathematical statistics, and actuarial science, and the application of original and standardized mathematical techniques to the solution of specific problems and situations.

Employment in this cluster is expected to grow at a slower than average pace. Very few openings are expected in this small cluster, with supply exceeding demand by a large margin.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: PSYCHOLOGISTS
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 1030

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
PSYCHOLOGISTS	10180600	181	226	24.86	8	2	10
TOTALS		181	226	24.86	8	2	10

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: PSYCHOLOGISTS
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 1030

- PROGRAM - TITLE	CIP CODE	PRI/PUB VOTECH SECOND	SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
PSYCHOLOGY, GENERAL	42.0101						146	146
PSYCHOLOGY, OTHER	42.9999						28	28
*** TOTALS							174	174

There is no supplemental information available for this cluster.

N1030 Psychologists

This cluster includes occupations involving the collection, interpretation, and application of scientific data relating to human behavior and mental processes. Includes formulating and applying psychological principles and laws in predicting and controlling behavior in society.

Employment in this cluster is expected to grow at a much faster rate than the average for all occupations, with eight of ten openings a result of growth annually. Supply far exceeds demand.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: SOCIAL WORKERS
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 1040

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
CASEWORKERS	10243401	898	1015	13.03	20	37	57
COMMUNITY ORGANIZATION WOR	10243405	118	146	23.73	5	5	10
TOTALS		1016	1161	14.27	25	42	67

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: SOCIAL WORKERS
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 1040

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
SOCIAL WORK	44.0701						9	9
*** TOTALS							9	9

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: SOCIAL WORKERS — DELAWARE CLUSTER # 1040

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
195.107-010	CASEWORKER	3	0	--
195.107-022	SOCIAL GROUP WORKER	4	0	--

NARRATIVE ANALYSIS FOR CLUSTER 1040

N1040 Social Workers

This cluster includes occupations which give counseling and aid to individuals and families requiring assistance of social service agencies, including visiting clients, arranging for care in foster homes, halfway houses or other facilities.

Employment in this cluster is growing at the same rate as the average for all occupations. Opportunities due to separations exceed those due to growth. Demand exceeds supply by a large margin; however, an oversupply in Cluster 1030, Psychologists, may partially offset this imbalance.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: SOCIAL SCIENTISTS
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 1050

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
ECONOMISTS	10180202	22	28	27.27	1	0	1
URBAN & REGIONAL PLANNERS	10181000	94	92	-2.13	0	2	2
ALL OTHER SOCIAL SCIENTIST	10181200	17	19	11.76	0	0	0
TOTALS		133	139	4.51	1	2	3

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: SOCIAL SCIENTISTS
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 1050

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
AMERICAN STUDIES	05.0102						16	16
MKTG MGT & RESEARCH, O	06.1401						167	167
HOUSING	19.0603						22	22
INDIVIDUAL & FAMILY DE	19.0701						20	20
MARINE POLICY	44.9999						5	5
ANTHROPOLOGY	45.0201						11	11
CRIMINOLOGY	45.0401						93	93
ECONOMICS	45.0601						99	99
GEOGRAPHY	45.0701						28	28
HISTORY	45.0801						57	57
INTERNATIONAL RELATION	45.0901						43	43
POLITICAL SCIENCE & GO	45.1001						95	95
SOCIOLOGY	45.1101						58	58
URBAN STUDIES	45.1201						9	9
*** TOTALS							723	723

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION
[0] STATE OF DELAWARE DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: SOCIAL SCIENTISTS DELAWARE CLUSTER # 1050

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
054.067-014	SOCIOLOGIST	1	0	--

NARRATIVE ANALYSIS FOR CLUSTER 1050

N1050 Social Scientists

This cluster includes occupations that study human society and its characteristic elements, such as historic, economic, political, and social policy; also includes planning and programs for utilization of cities, counties, and metropolitan areas.

Employment in this small cluster is growing at a much slower rate than the average for all occupations. Annual openings will be few. Supply far outstrips demand, but the breadth of this occupational area extends employment opportunities of completers in this cluster into many other clusters as well.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T
[0] STATE OF DELAWARE
CLUSTER TITLE: PROFESSIONAL OCCUPATIONS, MISC.
DELAWARE DEPARTMENT OF LABOR DELAWARE CLUSTER # 1060

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
AIR TRAFFIC CONTROLLERS	10140400	19	18	-5.26	0	0	0
UMPIRES	10220404	94	144	53.19	8	1	9
RIGHT-OF-WAY AGENTS	10240805	30	29	-3.33	0	1	1
ALL OTHER PROFESSIONAL WOR	10243899	2524	2754	45.00	9	38	47
CAPTAINS, WATER VESSEL	30060801	38	35	-7.89	-1	1	0
TOTALS		2705	2980	10.17	16	41	57

There is no institutional supply or supplemental information available for this cluster.

N1060 Professional Occupations, Other

This cluster includes professional occupations such as air-traffic controller, right-of-way agents, and captains of water vessels, not elsewhere classified.

Employment in this somewhat varied cluster is expected to grow at a slower-than-average rate, with growth dominated by the category of all other professional workers. Most of the openings will be a result of separations. No identifiable source of institutional supply exists.

XIX. PUBLIC HEALTH & SAFETY

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[01] STATE OF DELAWARE
CLUSTER TITLE: FIRE & FIRE SAFETY
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 1070

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
FIRE FIGHTERS	70100401	197	191	-3.05	-1	4	3
FIRE OFFICERS	70100403	49	48	-2.04	0	1	1
TOTALS		246	239	-2.84	-1	5	4

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[01] STATE OF DELAWARE
CLUSTER TITLE: FIRE & FIRE SAFETY
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 1070

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
FIRE FIGHTING	43.0203				1			1
FIRE PROTECTION, OTHER	43.0299						13	13
*** TOTALS					1		13	14

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11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: FIRE & FIRE SAFETY — DELAWARE CLUSTER # 1070

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
373.364-010	FIRE FIGHTER	1	0	--

NARRATIVE ANALYSIS FOR CLUSTER 1070

N1070 Fire and Fire Safety

This cluster includes persons administering, managing, and performing services for fire prevention, fire fighting, and rescue.

Employment in this cluster is expected to decline over the period. Since these estimates reflect only paid personnel, they do not account for the predominantly volunteer-oriented nature of this cluster. Supply is adequate to meet demand.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: PROTECTIVE SERVICES
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 1080

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
GUARDS & DOORKEEPERS	70100601	2229	2801	25.66	95	258	353
CORRECTION OFFICERS &/OR J	70100607	550	589	7.09	7	59	66
U.S. MARSHALLS	70100800	8	7	-12.50	0	1	1
DETECTIVES, PRIVATE	70101001	8	10	25.00	0	0	0
STORE DETECTIVES	70101002	99	141	42.42	7	1	8
POLICE OFFICERS	70101004	396	387	-3.04	-2	3	1
POLICE DETECTIVES	70101005	78	75	-3.85	-1	1	0
POLICE PATROLMEN/WOMEN	70101006	331	305	-2.79	-4	10	6
PARKING ENFORCEMENT OFFICE	70101007	58	62	6.90	1	1	3
SHERIFFS	70101201	23	16	-30.43	-1	1	0
BAILIFFS	70101302	55	53	-3.64	0	2	2
TOTALS		4335	4946	14.09	102	337	439

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: PROTECTIVE SERVICES
PROGRAM COMPLETIONS DELAWARE CLUSTER # 1080

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
CORRECTIONS	43.0102				1		7	8
CRIMINAL JUSTICE ADMIN	43.0103						17	17
CRIMINAL JUSTICE STUDI	43.0104						32	32
CRIMINAL JUSTICE	43.0105						1	1
LAW ENFORCEMENT	43.0107						16	16
SECURITY SERVICES	43.0109				1			1
PROTECTIVE SERVICES, O	43.9999						1	1
*** TOTALS					2		64	66

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[O] STATE OF DELAWARE DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: PROTECTIVE SERVICES DELAWARE CLUSTER # 1080

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
189.167-034	SECURITY OFFICER	7	0	--
372.667-018	CORRECTION OFFICER	7	3	2.3
372.667-034	GUARD, SECURITY	64	42	1.5
372.667-038	MERCHANT PATROLLER	14	4	3.5
375.263-014	POLICE OFFICER 1	8	0	--
375.587-010	PARKING ENFORCEMENT OFFIC	1	0	--

NARRATIVE ANALYSIS FOR CLUSTER 1080

N1080 Protective Services

This cluster includes occupations administering, managing, and providing services for private security, law enforcement, and corrections. Includes maintaining law and order in municipality, rural, or unincorporated districts; directing and controlling traffic; detecting and preventing crime; and maintaining order in court.

Employment in this cluster will grow at about the same rate as the all-occupations average. Guards and Doorkeepers is the dominant occupation in this cluster, both as a portion of total cluster employment and anticipated annual openings. Demand far exceeds supply in Delaware. Current supplemental information shows that applicants far exceed openings.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: PUBLIC SAFETY, HEALTH & SANITATION
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 1030

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL GROWTH	OPS - SEP.	OPS - TOTAL
SAFETY INSPECTOR	10243804	12	16	33.33	1	0	1
PUBLIC ADM INSPECTORS, EX	20040800	346	325	-6.07	-4	15	11
TREATMENT PLANT MECHANICS	50081810	35	35	0.00	0	1	1
SEWAGE PLANT OPERATORS	50144013	48	34	-29.17	-2	1	-1
WASTE TREATMENT PLANT OPS.	50144021	19	18	-5.26	0	1	1
WATER TREATMENT PLANT OPER	50144025	55	54	-1.82	0	2	2
TOTALS		515	482	-6.40	-5	20	15

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: PUBLIC SAFETY, HEALTH & SANITATION
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 1030

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
OCC. SAFETY & HEALTH T	15.0701					30		30
*** TOTALS						30		30

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION
[0] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: PUBLIC SAFETY, HEALTH & SANITATION — DELAWARE CLUSTER # 1030

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
954.382-014	WATER-TREATMENT-PLANT OPE	0	0	--

NARRATIVE ANALYSIS FOR CLUSTER 1090

N0170 Literary Services

This cluster includes occupations concerned with editing and reporting news items and features, writing publicity articles and press releases. Writers of technical manuals and similar materials are included in this cluster.

Employment growth in this cluster is projected to be below the average for all occupations during the 1984-1990 span. Average annual separations are expected to represent the majority of total opening. Supply far exceeds demand for this cluster and employment opportunities for these higher education completers must be found in other related clusters or in out of state job markets.

XX. RECREATION

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: RECREATION
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 1095

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
GROUP RECREATION WORKERS	10243201	482	556	15.35	12	23	35
TOTALS		482	556	15.35	12	23	35

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: RECREATION
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 1095

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
RECREATIONAL FACILITIE	31.0201						3	3
PARKS & RECREATION MAN	31.0301						9	9
*** TOTALS							12	12

There is no supplemental information available for this cluster.

N1095 Recreation

This cluster includes occupations which organize and supervise social, recreational, and cultural activities in youth or family camps, community centers, playgrounds, and other settings; and includes conducting recreation activities with assigned groups in public or voluntary agencies.

Employment in this cluster is expected to grow at about the average rate for all occupations. Openings due to separation will outnumber those due to growth by about two to one. Demand slightly exceeds supply.

XXI. SCIENCES

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[01] STATE OF DELAWARE
CLUSTER TITLE: BIOLOGICAL SCIENCES
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 1100

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL GROWTH	OPS - SEP.	OPS - TOTAL
BIOLOGICAL SCIENTISTS	10040601	491	491	0.00	0	13	13
MEDICAL SCIENTISTS	10040602	88	83	-5.68	-1	2	1
TOTALS		579	574	-.85	-1	15	14

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[01] STATE OF DELAWARE
CLUSTER TITLE: BIOLOGICAL SCIENCES
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 1100

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
BIOLOGY, GENERAL	26.0101						131	131
ECOLOGY	26.0603						9	9
ENTOMOLOGY	26.0702						11	11
BIOLOGICAL TECHNOLOGIE	41.0199						17	17
*** TOTALS							168	168

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: BIOLOGICAL SCIENCES DELAWARE CLUSTER # 1100

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
041.061-030	BIOLOGIST	1	0	--

NARRATIVE ANALYSIS FOR CLUSTER 1100

N1100 Biological Sciences

This cluster includes occupations which conduct research into the biological, chemical, and physical properties and reactions which take place in living organisms.

Employment in this cluster is expected to show a slight decline over the period; however, openings due to separation will provide limited opportunities in this field. Since future employment trends in this cluster are largely a result of overall trends in the chemical industry, it may be that estimates in this area are more conservative than in most other clusters. Supply far exceeds demand.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: CHEMISTS
DELAWARE DEPARTMENT OF LABOR DELAWARE CLUSTER # 1110

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
CHEMISTS	10040800	1587	1807	13.86	37	30	67
TOTALS		1587	1807	13.86	37	30	67

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: CHEMISTS
PROGRAM COMPLETIONS DELAWARE CLUSTER # 1110

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
CHEMISTRY	40.0501						74	74
*** TOTALS							74	74

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION
DELAWARE DEPARTMENT OF LABOR

[0] STATE OF DELAWARE
CLUSTER TITLE: CHEMISTS

DELAWARE CLUSTER # 1110

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
022.061-010	CHEMIST	2	0	--

NARRATIVE ANALYSIS FOR CLUSTER 1110

N1110 Chemists

This cluster includes occupations involving research in the chemical/physical properties and compositional changes of substances; including chemical testing, qualitative and quantitative chemical analyses or chemical experiments in laboratories for quality or process control or to develop new products or new knowledge.

Employment in this cluster is expected to grow at about the average rate for all occupations. Average annual openings due to growth will slightly exceed those due to separation. Supply and demand are in relative balance for this cluster.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: PHYSICAL SCIENTISTS
DELAWARE DEPARTMENT OF LABOR

DELAWARE CLUSTER # 1120

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
GEOLOGISTS & GEOPHYSICISTS	10041000	7	8	14.29	0	0	0
PHYSICISTS	10041400	26	32	23.08	1	0	1
LIFE & PHYSICAL SCIENT NEC	10041600	215	192	-10.70	-4	0	-4
TOTALS		248	232	-6.44	-3	0	-3

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: PHYSICAL SCIENTISTS
PROGRAM COMPLETIONS DELAWARE CLUSTER # 1120

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
MARINE STUDIES	30.9999						55	55
PHYSICAL SCIENCE, GENE	40.0101						1	1
GEOLOGY	40.0601						49	49
GEOPHYSICS	40.0603						8	8
PHYSICS, GENERAL	40.0801						19	19
ATOMIC/MOLECULAR PHYSI	40.0802						2	2
*** TOTALS							134	134

There is no supplemental information available for this cluster.

N1120 Physcial Scientists

This cluster includes occupations that describe the physical properties and interactions of matter and energy, including equilibrium, power, wave phenomena, mechanics, heat, electricty, magnetism, sound, light, special relativity, and the particular nature of matter.

Employment in this cluster is expected to decline at a rate of more than 6 percent. Supply far exceeds demand.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: MISC. TECHNICIANS
DELAWARE DEPARTMENT OF LABOR DELAWARE CLUSTER # 1130

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL GROWTH	OPS - SEP.	OPS - TOTAL
ALL OTHER SCIENCE TECHS	10081899	2703	2567	-5.03	-22	23	1
ALL OTHER TECHNICIANS	10141404	1295	1268	-2.08	-5	15	10
TOTALS		3998	3835	-4.07	-27	38	11

There is no institutional supply data available for this cluster.

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: MISC. TECHNICIANS DELAWARE CLUSTER # 1130

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
011.261-010	METALLURGICAL TECHNICIAN	2	0	--
022.261-010	CHEMICAL-LABORATORY TECHN	2	0	--
029.261-010	LABORATORY TESTER	2	1	2.0
235.462-010	CENTRAL-OFFICE OPERATOR	2	0	--

NARRATIVE ANALYSIS FOR CLUSTER 1130

N1130 Miscellaneous Science Technicians

This cluster includes occupations which assist physical and life scientists in both laboratory and production activities, excluding medical and dental technicians found in Cluster #850.

Employment in this cluster is expected to decline by about 4 percent. There will be a limited number of openings due to separations each year. There is no identifiable source of institutional supply for this cluster in the State.

XXII. SERVICES

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: CHILD CARE SERVICES
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 1140

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
CHILD CARE ATTENDANTS	70081601	255	384	50.59	22	19	41
CHILD CARE WORKERS	70081602	308	1277	40.64	62	63	125
TOTALS		1163	1661	42.82	84	82	166

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: CHILD CARE SERVICES
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 1140

- PROGRAM - TITLE	CIP CODE	PRI/PUB VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
CHILD CARE, GUIDANCE &	20.0201	56	14		21		91
CHILD CARE AIDE/ASSIST	20.0202			2			2
*** TOTALS		56	14	2	21		93

11/26/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[O] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: CHILD CARE SERVICES — DELAWARE CLUSTER # 1140

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
359.677-010	ATTENDANT, CHILDREN'S INS	8	75	0.1
359.677-018	NURSERY SCHOOL ATTENDANT	67	84	0.8
359.677-026	PLAYROOM ATTENDANT	1	0	--

NARRATIVE ANALYSIS FOR CLUSTER 1140

N1140 Child Care Services

This cluster includes occupations which provide service and assistance to children in their daily activities and needs in homes, institutions, special schools, day care centers, or nursery schools.

Employment in this cluster is expected to grow at a rate substantially above the average rate for all occupations. Job openings due to growth will equal those due to separations. Demand exceeds supply, owing in part to the rise in the number of working mothers. Current supplemental data indicate a large number of openings relative to the number of applicants.

11/27/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: COSMETOLOGY
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 1150

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
BARBERS	70081000	280	378	35.00	16	20	36
COSMETOLOGISTS/WM'S HAIRST	70082001	1535	1939	25.67	66	68	134
MANICURISTS	70082003	25	33	32.00	1	1	2
SCALP TREATMENT OPERATORS	70082004	15	23	53.33	1	1	2
SHAMPOOERS	70082006	137	172	25.55	6	6	12
TOTALS		1992	2535	27.26	90	96	186

11/27/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

(0) STATE OF DELAWARE
CLUSTER TITLE: COSMETOLOGY
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 1150

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP-RENT	HIGHER EDUC	TOTAL COMP
COSMETOLOGY	12.0403	44	57	273	2	12		388
*** TOTALS		44	57	273	2	12		388

11/27/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

(0) STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: COSMETOLOGY — DELAWARE CLUSTER # 1150

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
330.371-010	BARBER	2	0	--
332.271-010	COSMETOLOGIST	14	0	--

NARRATIVE ANALYSIS FOR CLUSTER 1150

N1150 Cosmetology

This cluster includes occupations providing customers with barbering and beauty services including suggestion of hair styles, cutting, trimming, shampooing, bleaching and dyeing hair, manicuring nails, and applying lotions and creams to neck and face.

Employment in this cluster is expected to grow at a rate substantially above the all-occupations average, with average annual openings evenly divided between growth and separation. Supply exceeds demand by about a two-to-one margin.

11/27/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[01] STATE OF DELAWARE
CLUSTER TITLE: CUSTODIAL & MAINTENANCE
DELAWARE DEPARTMENT OF LABOR

DELAWARE CLUSTER # 1160

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
MAINTENANCE REPAIRERS, GEN	50144821	3396	3723	13.65	55	92	147
MOBILE HOME REPAIRERS	50144825	18	20	11.11	0	1	1
EXTERMINATORS	61083204	30	39	30.00	2	1	3
TERMITE TREATERS	61083210	20	26	30.00	1	1	2
JANITORS, PORTERS, & CLEANER	70020600	9571	11236	17.40	278	181	459
TOTALS		13035	14044	16.69	336	276	612

11/27/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[01] STATE OF DELAWARE
CLUSTER TITLE: CUSTODIAL & MAINTENANCE
PROGRAM COMPLETIONS

DELAWARE CLUSTER # 1160

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
CUSTODIAL SERVICES	20.0604				41			41
BUILDING MAINTENANCE	46.0401			36	49	17		92
*** TOTALS				36	90	17		133

11/27/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[01] STATE OF DELAWARE
CLUSTER TITLE: CUSTODIAL & MAINTENANCE
DELAWARE DEPARTMENT OF LABOR

DELAWARE CLUSTER # 1160

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
323.687-010	CLEANER, HOSPITAL	13	1	13.0
323.687-014	CLEANER, HOUSEKEEPING	56	32	1.8
381.687-014	CLEANER, COMMERCIAL OR IN	324	875	0.4
389.684-010	EXTERMINATOR	3	0	--
899.281-014	MAINTENANCE REPAIRER, FAC	5	7	0.7
899.381-010	MAINTENANCE REPAIRER, BUI	60	39	1.5
919.687-014	CLEANER 2	9	4	2.3

NARRATIVE ANALYSIS FOR CLUSTER 1160

N1160 Custodial and Maintenance

This cluster includes occupations which involve cleaning, doing routine maintenance and repairing, replenishing supplies, operating elevators, or exterminating insects or rodents.

Employment in this cluster is expected to grow faster than the average rate for all occupations. A very large number of average annual openings will occur, with about 54 percent due to growth. Demand considerably exceeds supply for the cluster. Custodial Services generally requires less by way of formal training than do Building Maintenance positions. Current supplemental data show that the number of openings exceeds applicants by about a two-to-one margin.

11/27/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: INFORMATION SERVICES
DELAWARE DEPARTMENT OF LABOR DELAWARE CLUSTER # 1170

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
POSTMASTERS &/OR MAIL SUPE	30041200	61	58	-4.93	-1	4	3
DISPATCHERS, POLICE, FIRE, AM	40061803	97	96	-1.03	0	4	4
DISPATCHERS, VEHICLE, SERV O	40061804	313	336	7.76	3	8	11
SURVEY WORKERS	40062000	96	127	32.29	5	6	11
POSTAL MAIL CARRIERS	40063200	1149	1195	4.00	8	18	26
MAIL CLERKS	40063402	219	319	45.66	17	8	25
POSTAL SERVICE CLERKS	40064200	366	338	-10.53	-5	6	1
TELEGRAPH OPERATORS	40066000	22	23	4.55	0	0	0
SWITCHBOARD OPERATORS	40066201	436	485	11.24	8	18	26
CENTRAL OFFICE OPERATORS	40066202	197	184	-6.60	-2	8	6
DIRECTORY ASSISTANCE OPERA	40066203	39	41	5.13	0	2	2
PROTECTIVE SIGNAL OPERATOR	40066831	24	32	33.33	1	1	2
MAILERS	61089097	47	49	4.26	0	1	1
TOTALS		3872	3083	7.35	34	84	118

There is no institutional supply data available for this cluster

11/27/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[O] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: INFORMATION SERVICES — DELAWARE CLUSTER # 1170

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
205.367-054	SURVEY WORKER	2	2	1.0
209.587-026	MAIL CLERK	16	7	2.3
209.687-014	MAIL HANDLER	5	0	--
235.662-022	TELEPHONE OPERATOR	10	3	3.3
235.662-026	TELEPHONE-ANSWERING-SERVI	1	0	--
249.167-014	DISPATCHER, MOTOR VEHICLE	2	3	0.7

NARRATIVE ANALYSIS FOR CLUSTER 1170

N1170 Information Services

This cluster includes occupations involving gathering and disseminating information to the general public by operating and maintaining radio, telegraphic, and telephone equipment for communications; postal mail carriers and clerks; and survey workers.

Employment in this diverse cluster is expected to grow at a slightly lower rate than the average for all occupations. Openings due to separations are expected to exceed opportunities due to growth by more than a two-to-one margin. No identifiable source of institutional supply exists in the State.

11/27/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[O] STATE OF DELAWARE
CLUSTER TITLE: HOTEL & LODGING SERVICE
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 1190

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPG - GROWTH	SEP.	TOTAL
HOUSEKEEPERS, HOTEL & MOTEL	70080616	546	752	37.73	34	24	58
TOTALS		546	752	37.73	34	24	58

11/27/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[01] STATE OF DELAWARE
CLUSTER TITLE: HOTEL & LODGING SERVICE
PROGRAM COMPLETIONS DELAWARE CLUSTER # 1180

- PROGRAM - TITLE	CIP CODE	PRI/PUB VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
INSTITUTIONAL, HOME MG	20.0601	42		1			43
EXECUTIVE HOUSEKEEPER	20.0605			4			4
*** TOTALS		42		5			47

There is no supplemental information available for this cluster.

N1180 Hotel and Lodging Service

This cluster includes occupations involving supervision of cleaning personnel to assure clean, orderly, attractive rooms in hotels, hospitals, educational institutions, and similar establishments.

Employment in this cluster is expected to grow at a faster rate than the average for all occupations. The majority of average annual openings will be a result of growth. Demand and supply are in relative balance.

11/27/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[01] STATE OF DELAWARE
CLUSTER TITLE: LAUNDERING & DRY CLEANING SERVICES
DELAWARE DEPARTMENT OF LABOR DELAWARE CLUSTER # 1180

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
PRESSERS, HAND	61081301	46	47	2.17	0	2	2
PRESSERS, MACHINE	61081302	112	142	26.79	5	5	10
PRESSERS, MACHINE, LAUNDRY	61081303	189	246	30.16	10	9	19
SHAPERS & PRESSERS	61081308	7	7	0.00	0	0	0
MARKERS, CLASSIFIERS, ASSEMB	61082801	15	17	13.33	0	1	1
SPOTTERS, DRYCLEANING	61082802	8	10	25.00	0	0	0
WASHERS, MACH &/OR STARCHER	61082804	134	163	21.64	5	5	10
TUMBLER OPERATORS	61082805	8	10	25.00	0	0	0
DRYCLEANING MACHINE OPERAT	61082806	41	63	53.66	4	2	6
LAUNDRY OPERATORS, SM ESTAB	61082809	108	133	23.15	4	4	8
RUG CLEANER, HAND	61082812	25	32	28.00	1	1	2
FOLDERS, LAUNDRY	61083818	23	29	26.09	1	1	2
GARMENT REPAIRERS	61085212	7	4	-42.86	-1	0	-1
TOTALS		723	903	24.90	29	30	59

11/27/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: LAUNDERING & DRY CLEANING SERVICES
PROGRAM COMPLETIONS DELAWARE CLUSTER # 1130

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
LAUNDERING	12.0103				1			1
*** TOTALS					1			1

11/27/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[0] STATE OF DELAWARE DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: LAUNDERING & DRY CLEANING SERVICES DELAWARE CLUSTER # 1130

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
361.665-010	WASHER, MACHINE	2	0	--
361.685-018	LAUNDRY WORKER 2	3	3	1.0
361.687-014	CLASSIFIER	0	4	0.0
361.687-018	LAUNDRY LABORER	1	0	--
362.684-018	HAT BLOCKER	6	0	--
363.682-018	PRESSER, MACHINE	4	1	4.0
363.685-026	SHIRT PRESSER	1	0	--
363.686-010	FLATWORK FINISHER	1	0	--

NARRATIVE ANALYSIS FOR CLUSTER 1130

N1130 Laundering and Dry Cleaning

This cluster includes occupations which launder clothing; operate dry cleaning machines; clean by hand articles such as garments, drapes, lampshades, and leather goods; dye articles such as garments, drapes, or slipcovers; operate pressing machines; clean fur garments; and clean rugs with chemical solutions in plants or on customers' premises.

Employment in this cluster is expected to grow at a faster than average rate. Openings due to separations will equal those due to growth. Demand far exceeds supply, suggesting a possible area of emphasis for training.

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DELAWARE OCCUPATIONAL INFORMATION SYSTEM

D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: MISC. SERVICES
DELAWARE DEPARTMENT OF LABOR

DELAWARE CLUSTER # 1135

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
EMBALMERS	10140600	10	13	30.00	1	4	5
MOTION PICTURE PROJECTIONI	50142800	30	24	-20.00	-1	1	0
RECREATION FACILITY ATTEND	70080401	146	191	30.82	8	6	14
GAME OPS, RIDE OPS, CONCES	70080402	22	27	22.73	1	1	2
PIN CHASERS	70080403	29	41	41.38	2	1	3
LIFEGUARDS	70080407	119	142	19.33	4	5	9
MORTUARY BEAUTICIANS	70080602	10	13	30.00	1	1	2
FUNERAL ATTENDANTS	70080607	27	33	22.22	1	2	3
INSTRUCTORS, REDUCING	70080611	156	189	21.15	6	13	19
CHECKROOM & LOCKER RM ATTN	70080618	11	14	27.27	1	1	2
BELLHOPS, BAG PORTERS, DRK	70080801	28	27	-3.57	0	0	0
BAGGAGE HANDLERS	70080803	5	5	0.00	0	0	0
SCHOOL MONITORS	70082600	233	257	10.30	4	8	12
USHERS, LOBBY ATTNS, TICKE	70082800	63	58	-7.94	-1	1	0
SCHOOL CROSSING GUARDS	70100203	212	208	-1.89	-1	16	15
SUPERVISORS, NONWORKING, S	70200001	571	681	19.26	18	15	33
ALL OTHER SERVICE WORKERS	70200099	1416	1608	13.56	32	17	49
ANIMAL CARETAKERS	80000200	283	329	16.25	8	9	17
TOTALS		3371	3860	14.51	84	101	185

11/27/85

DELAWARE OCCUPATIONAL INFORMATION SYSTEM

S U P P L Y R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: MISC. SERVICES
PROGRAM COMPLETIONS

DELAWARE CLUSTER # 1135

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
ANIMAL GROOMING	01.0504			3				3
VETERINARIAN AIDE	17.0511				1			1
*** TOTALS				3	1			4

11/27/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION
[0] STATE OF DELAWARE DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: MISC. SERVICES DELAWARE CLUSTER # 1195

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
301.474-010	HOUSE WORKER, GENERAL	35	2	17.5
309.677-010	COMPANION	13	0	--
338.371-014	EMBALMER (PER. SER.)	1	0	--
915.667-010	CAR-WASH ATTENDANT, AUTOM	1	0	--

NARRATIVE ANALYSIS FOR CLUSTER 1195

N1195 Miscellaneous Services

This cluster includes service occupations such as school crossing guards, animal caretakers, funeral attendants, checkroom and locker room attendants, and others not elsewhere classified.

Employment in this diverse cluster is expected to grow at about the same rate as the average for all occupations. Openings due to separation will exceed those due to growth. Very little institutional supply exists.

XXIII. TRANSPORTATION

11/27/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[01] STATE OF DELAWARE
CLUSTER TITLE: AIRCRAFT OPERATION
DELAWARE DEPARTMENT OF LABOR — DELAWARE CLUSTER # 1200

- OCCUPATION - TITLE	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	SEP.	TOTAL
AIRPLANE PILOTS	10140200	109	109	0.00	0	1	1
TOTALS		109	109	0.00	0	1	1

11/27/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[01] STATE OF DELAWARE
CLUSTER TITLE: AIRCRAFT OPERATION
PROGRAM COMPLETIONS — DELAWARE CLUSTER # 1200

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
FLIGHT TRAINING	15.0801			216			5	221
*** TOTALS				216			5	221

11/27/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION
DELAWARE DEPARTMENT OF LABOR

[0] STATE OF DELAWARE
CLUSTER TITLE: AIRCRAFT OPERATION DELAWARE CLUSTER # 1200

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
193.162-018	AIR-TRAFFIC CONTROL SPECI	2	0	--
352.367-010	AIRPLANE FLIGHT ATTENDANT	1	0	--
621.261-018	FLIGHT ENGINEER (AIR TRAN	1	0	--

NARRATIVE ANALYSIS FOR CLUSTER 1200

N1200 Aircraft Operation

This cluster includes occupations involved with the inflight piloting and navigating of private and commercial aircraft.

Employment in this cluster is expected to remain at the current level. Supply far exceeds demand; however, most completers are not expected to enter commercial aviation.

11/27/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

[0] STATE OF DELAWARE
CLUSTER TITLE: RAILROAD OCCUPATIONS
DELAWARE DEPARTMENT OF LABOR DELAWARE CLUSTER # 1210

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	OPS - SEP.	OPS - TOTAL
CONDUCTORS, TRAIN	20061200	92	111	20.65	3	3	6
STATION AGENTS	40066401	10	8	-20.00	0	0	0
SECTION REPAIRERS & SETTER	50081814	5	4	-20.00	0	0	0
SIGNAL MAINTAINERS	50082802	13	13	0.00	0	0	0
CAR REPAIRERS	50082803	39	40	2.56	0	1	1
YARD ENGINEERS	50120402	46	63	36.96	3	2	5
HOSTLERS	50120403	84	102	21.43	3	3	6
LOCOMOTIVE ENGINEERS	50120405	43	57	32.56	2	2	4
FIRERS, LOCOMOTIVES	50120600	19	5	-73.68	-2	0	-2
BRAKERS, TRAIN	62001600	130	146	12.31	3	3	6
TOWER OPERATOR	62001800	25	26	4.00	0	1	1
TOTALS		506	575	13.64	12	15	27

There is no institutional supply or supplemental information available for this cluster.

N1210 Railroad

This cluster includes occupations concerned with the operation, maintenance, and repair of a fixed rail transportation system, including train operation (engineers, firemen, brakers), and services (conductors, tower operators, station agents) and repair (car, section, signal).

Employment in this cluster is expected to grow at a rate slightly lower than the average for all occupations. Openings due to separations will slightly outnumber those due to growth. No local source of institutional supply exists.

11/27/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
D E M A N D R E P O R T

(D) STATE OF DELAWARE
CLUSTER TITLE: VEHICLE OPERATION
DELAWARE DEPARTMENT OF LABOR DELAWARE CLUSTER # 1210

- OCCUPATION - T I T L E	MATRIX CODE	EMPLOYMENT EST 84	EMPLOYMENT PROJ 90	% CHANGE	-- AV. ANNUAL OPS - GROWTH	REP.	TOTAL
BUS DRIVERS	62000401	321	357	11.21	6	17	23
BUS DRIVERS, SCHOOL	62000402	1441	1567	8.74	21	74	95
DELIVERY & ROUTE WORKERS	62000801	1982	2357	18.92	63	37	100
PARKING LOT ATTENDANTS	62001400	139	162	16.55	4	8	12
TAXI DRIVERS	62002004	339	363	10.04	4	9	13
CHAUFFEURS	62002007	139	181	30.22	7	6	13
TRUCK DRIVERS	62002304	4479	4961	10.76	80	71	151
TOTALS		8740	9848	12.68	185	222	407

11/27/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

[01] STATE OF DELAWARE
CLUSTER TITLE: VEHICLE OPERATION
PROGRAM COMPLETIONS

DELAWARE CLUSTER # 1220

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP-RENT	HIGHER EDUC	TOTAL COMP
TRUCK AND BUS DRIVING	49.0205			32	2		51	145
*** TOTALS				32	2		51	145

11/27/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
SUPPLEMENTAL INFORMATION

[01] STATE OF DELAWARE — DELAWARE DEPARTMENT OF LABOR
CLUSTER TITLE: VEHICLE OPERATION — DELAWARE CLUSTER # 1220

DOT CODE	TITLE	JOB SERVICE APPLICANTS	TOTAL OPENINGS	RATIO AP/OPEN
232.353-010	DRIVER, SALES ROUTE	17	12	1.4
292.483-010	COIN COLLECTOR	2	0	--
903.683-018	TANK-TRUCK DRIVER	5	0	--
904.383-010	TRACTOR-TRAILER-TRUCK DRI	88	25	3.5
905.663-014	TRUCK DRIVER, HEAVY	116	7	16.6
906.683-022	TRUCK DRIVER, LIGHT	98	10	9.8
913.463-010	BUS DRIVER	31	4	22.8
913.463-018	TAXI DRIVER	3	1	3.0
915.473-010	PARKING-LOT ATTENDANT	3	0	--
919.683-014	DRIVER	1	0	--

NARRATIVE ANALYSIS FOR CLUSTER 1220

N1220 Vehicle Operation

This cluster includes occupations concerned with operating, scheduling, driving, and controlling, safety and operation inspecting, and storing and parking of on-land automotive transport vehicles.

Employment in this diverse cluster is expected to grow at a rate slightly lower than the all-occupations average. Openings due to separation will outnumber those due to growth by a slight margin. Demand exceeds supply by nearly three to one. Current supplemental data show a large supply of applicants relative to openings.

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XXIV. GENERALIZABLE OCCUPATIONAL SUPPLY

There is no demand data available for this cluster.

11/27/85
DELAWARE OCCUPATIONAL INFORMATION SYSTEM
S U P P L Y R E P O R T

001 STATE OF DELAWARE
CLUSTER TITLE: GENERALIZABLE OCCUPATIONAL SUPPLY
PROGRAM COMPLETIONS DELAWARE CLUSTER # 1127

- PROGRAM - TITLE	CIP CODE	PRI/PUB SECOND	VOTECH SECOND	PRIV POST	JTPA	APP- RENT	HIGHER EDUC	TOTAL COMP
FOREIGN LANGUAGES, MUL	16.0101						5	5
RUSSIAN	16.0402						1	1
GERMAN	16.0501						4	4
FRENCH	16.0901						9	9
SPANISH	16.0905						11	11
HOME ECONOMICS, GENERA	19.0101						13	13
LIBERAL / GENERAL STUD	24.0101						32	32
PHILOSPHY & RELIGION	38.0101						11	11
*** TOTALS							85	85

There is no supplemental information available for this cluster.

N1230 Generalizable Occupational Supply

This cluster includes postsecondary supply not easily defined to a specific occupational cluster.

This cluster represents additional higher education completers for which no corresponding occupational demand can be formally assessed.

APPENDIX A: INDUSTRY/OCCUPATION EMPLOYMENT (MATRIX) SUMMARY, 1984-1990

DELAWARE EMPLOYMENT PROJECTIONS BY OCCUPATION
AREA - STATEWIDE

INDUSTRY-OCCUPATION EMPLOYMENT (MATRIX) SUMMARY, 1984-1990

		INDUSTRY DIVISION									
OCCUPATIONAL TITLE	Year	Total	Agricul.	Mining	Constn.	Manufng.	T.C.P.U.	Trade	F.I.R.E.	Services	Pub.Adm.	S.Emp
Total, All Occupations	1984	281473	2232	40	16821	71733	13765	61506	16847	80436	18093	16194
	1990	322682	2626	51	17852	73948	14015	73183	24610	99198	17198	17585
Professional and Technical Workers	1984	52068	62	0	679	15278	1019	1627	1555	27343	4506	3817
	1990	60411	73	2	734	15979	1087	2003	2530	33624	4379	4113
Managers, Officials Nonfarm Proprietors	1984	26137	129	5	1950	5955	1063	7035	2901	5209	1890	2201
	1990	29965	152	5	2058	5741	1085	8241	4292	6568	1823	1893
Sales Workers	1984	19753	25	0	175	1414	188	11522	1409	980	40	2109
	1990	23310	29	0	182	1392	195	18430	1792	1253	37	2227
Clerical Workers	1984	57164	61	3	1355	10462	3893	11339	9506	16392	4153	529
	1990	68230	77	5	1466	10946	3933	13652	14417	19889	3840	693
Crafts & Kindred Workers	1984	30494	139	9	8016	10446	2737	3827	629	2890	1801	3892
	1990	32796	162	10	8492	11117	2760	4386	623	3547	1699	4168
Operatives	1984	34156	226	19	1378	21752	3074	3664	8	3398	637	950
	1990	35869	265	25	1459	22082	3195	4058	11	4175	599	1121
Service Workers	1984	44879	14	0	190	1452	134	16230	575	22193	4091	2396
	1990	53802	17	0	197	1473	123	19808	692	27512	3980	3081
Laborers, Except Farm	1984	15734	488	4	3078	4979	1657	2262	264	2032	975	292
	1990	17022	574	4	3264	5218	1632	2606	253	2630	841	273
Farmers and Farm Workers	1984	1088	1088	0	0	0	0	0	0	0	0	8
	1990	1277	1277	0	0	0	0	0	0	0	0	16

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APPENDIX B: TOTAL WAGE AND SALARY EMPLOYMENT BY OCCUPATION

DELAWARE EMPLOYMENT PROJECTIONS BY OCCUPATION
AREA - STATEWIDE

TOTAL WAGE AND SALARY EMPLOYMENT BY OCCUPATION
INCLUDING SELF-EMPLOYED AND UNPAID FAMILY WORKERS

OCCUPATIONAL TITLE	1984 EMPLOYMENT		PROJ. 1990 EMPL.		CHANGE 1984-90	
	NUMBER	PCT.	NUMBER	PCT.	NUMBER	PCT.
****** TOTAL ALL OCCUPATIONS ******	297871	100.00	340273	100.00	42402	14.31
PROFESS.TECHN.& KINDRED OC***	55889	18.78	64529	18.96	8640	15.46
ENGINEERS	5175	1.74	5580	1.64	405	7.83
CHEMICAL ENGINEERS	1572	0.53	1901	0.56	329	20.93
CIVIL ENGINEERS	453	0.15	467	0.14	14	3.09
ELECTRICAL ENGINEERS	798	0.27	879	0.26	81	10.15
INDUSTRIAL ENGINEERS	394	0.13	397	0.12	3	0.76
MECHANICAL ENGINEERS	1356	0.46	1354	0.40	-2	-0.15
METALLURGISTS & MET ENGINEERS	8	0.00	9	0.00	1	12.50
OTHER ENGINEERS	594	0.20	572	0.17	-22	-3.70
ALL OTHER ENGINEERS	592	0.20	569	0.17	-23	-3.89
LIFE & PHYSICAL SCIENTISTS	2461	0.83	2661	0.78	200	8.13
AGRICULTURAL SCIENTISTS	46	0.02	47	0.01	1	2.17
LIFE SCIENTISTS	579	0.19	574	0.17	-5	-0.86
BIOLOGICAL SCIENTISTS	491	0.16	491	0.14	0	0.00
MEDICAL SCIENTISTS	88	0.03	83	0.02	-5	-5.68
CHEMISTS	1587	0.53	1807	0.53	220	13.86
GEOLOGISTS & GEOPHYSICISTS	7	0.00	8	0.00	1	14.29
PHYSICISTS	26	0.01	32	0.01	6	23.08
LIFE&PHYSICAL SCIENTISTS,NEC	215	0.07	192	0.06	-23	-10.70
MATHEMATICAL SPECIALISTS	242	0.08	262	0.08	20	8.26
ACTUARIES	15	0.01	20	0.01	5	33.33
MATHEMATICAL SCIENTISTS	178	0.06	190	0.06	12	6.74
ALL OTHER MATH SCIENTISTS	178	0.06	190	0.06	12	6.74
STATISTICIANS	49	0.02	52	0.02	3	6.12
ENGINEERING,SCIENCE TECHNS	5802	1.95	6044	1.78	242	4.17
DRAFTERS	1380	0.46	1425	0.42	45	3.26
DRAFTERS	1360	0.46	1406	0.41	46	3.38
ESTIMATORS & DRAFTERS,UTILITIES	20	0.01	19	0.01	-1	-5.00
ELECTRICAL,ELECTRONIC TECHNS	698	0.23	835	0.25	137	19.63
ELECTRICAL & ELECTRONIC TECHNS	686	0.23	826	0.24	140	20.41
BROADCAST TECHNICIANS	12	0.00	9	0.00	-3	-25.00
INDUSTRIAL ENGINRING TECHNICIANS	18	0.01	20	0.01	2	11.11
MECHAN ENGINEERING TECHNICIANS	98	0.03	128	0.04	30	30.61
SURVEYORS	132	0.04	138	0.04	6	4.55
ENGIN & SCI TECHNS,NEC	3475	1.17	3497	1.03	22	0.63
COLORISTS TEXTILES	5	0.00	3	0.00	-2	-40.00
CIVIL ENGINEERING TECHNICIANS	226	0.08	238	0.07	12	5.31
ALL OTHR ENGINEERING TECHNICIANS	538	0.18	686	0.20	148	27.51
ALL OTHER SCIENCE TECHNICIANS	2703	0.91	2567	0.75	-136	-5.03
MEDICAL WORKERS,EX TECHNS	7263	2.44	8962	2.63	1699	23.39
CHIROPRACTORS	85	0.03	79	0.02	-6	-7.06
DENTISTS	522	0.18	563	0.17	41	7.85
DIETITIANS &/OR NUTRITIONISTS	83	0.03	102	0.03	19	22.89
NURSES,PROFESSIONAL	4132	1.39	5282	1.55	1150	27.83
OPTOMETRISTS	40	0.01	38	0.01	-2	-5.00
PHARMACISTS	290	0.10	362	0.11	72	24.83
PHYSICIANS &/OR SURGEONS	1336	0.45	1593	0.47	257	19.24
PODIATRISTS	118	0.04	126	0.04	8	6.78
THERAPISTS	507	0.17	624	0.18	117	23.08
OCCUPATIONAL THERAPISTS	56	0.02	78	0.02	22	39.29
MANUAL ARTS,MUSIC,REC THERAPISTS	63	0.02	76	0.02	13	20.63
SPEECH & HEARING CLINICIANS,ETC	110	0.04	121	0.04	11	10.00
PHYSICAL THERAPISTS	125	0.04	156	0.05	31	24.80
INHALATION THERAPISTS	77	0.03	98	0.03	21	27.27
ALL OTHER THERAPISTS	73	0.02	92	0.03	19	26.03
VETERINARIANS	150	0.05	193	0.06	43	28.67
OTHER HEALTH TECHNOLS & TECHNS	3752	1.26	4629	1.36	877	23.37
HEALTH TECHNOLS & TECHNS	615	0.21	701	0.21	86	13.98
MEDICAL LAB TECHNOLOGISTS	170	0.06	182	0.05	12	7.06
BIOCHEMISTRY TECHNOLOGISTS	42	0.01	54	0.02	12	28.57
MICROBIOLOGY TECHNOLOGISTS	37	0.01	47	0.01	10	27.03

DELAWARE EMPLOYMENT PROJECTIONS BY OCCUPATION
AREA - STATEWIDE

TOTAL WAGE AND SALARY EMPLOYMENT BY OCCUPATION
INCLUDING SELF-EMPLOYED AND UNPAID FAMILY WORKERS

OCCUPATIONAL TITLE	1984 EMPLOYMENT		PROJ. 1990 EMPL.		CHANGE 1984-90	
	NUMBER	PCT.	NUMBER	PCT.	NUMBER	PCT.
CYTOTECHNOLOGISTS	8	0.00	10	0.00	2	25.00
HISTOLOGIC TECHNOLOGISTS	15	0.01	19	0.01	4	26.67
MEDICAL LAB ASSISTANTS	202	0.07	213	0.08	11	5.45
BLOOD BANK TECH SPECILAISTS	141	0.05	176	0.05	35	24.82
DENTAL HYGIENISTS & ASSTS	628	0.21	782	0.23	154	24.52
DENTAL ASSISTANTS	375	0.13	464	0.14	89	23.73
DENTAL HYGIENISTS	253	0.08	318	0.09	65	25.69
MEDICAL RECORD LIBRARIANS	26	0.01	32	0.01	6	23.08
RADIOLOGIC TECHNOLS,TECHNS	269	0.09	336	0.10	67	24.91
X-RAY TECHNICIANS	204	0.07	257	0.08	53	25.98
RADIOLOGIC TECHS & NUC MED TECHS	65	0.02	79	0.02	14	21.54
OTHER HEALTH TECHNOLS,TECHNS	2146	0.72	2691	0.79	545	25.40
SURGICAL TECHNICIANS	62	0.02	79	0.02	17	27.42
PROSTHETISTS,ORTHOTISTS	5	0.00	6	0.00	1	20.00
EKG TECHNICIANS	46	0.02	56	0.02	10	21.74
EEG TECHNICIANS	13	0.00	16	0.00	3	23.08
EMERGENCY MEDICAL TECHNICIANS	84	0.03	82	0.02	-2	-2.38
PHARMACY HELPERS	142	0.05	173	0.05	31	21.83
LICENSED PRACTICAL NURSES	1555	0.52	1998	0.59	443	28.49
DIETETIC TECHNICIANS	9	0.00	11	0.00	2	22.22
PHYSICAL THERAPY TECHNICIANS	70	0.02	87	0.03	17	24.29
ALL OTHER MED & DENT TECHNICIANS	160	0.05	183	0.05	23	14.37
PUBLIC RELATIONS SPECIALISTS	68	0.02	87	0.03	19	27.94
TECHNICIANS,EX HEALTH OR S&E	1586	0.53	1577	0.46	-9	-0.57
AIRPLANE PILOTS	109	0.04	109	0.03	0	0.00
AIR TRAFFIC CONTROLLERS	19	0.01	18	0.01	-1	-5.26
EMBALMERS	10	0.00	13	0.00	3	30.00
OTHER TECHNS,EX HEALTH OR S&E	1445	0.49	1432	0.42	-13	-0.90
ALL OTHER TECHNICIANS	1295	0.44	1268	0.37	-27	-2.08
TECHNICAL ASSISTANTS,LIBRARY	147	0.05	160	0.05	13	8.84
COMPUTER SPECIALISTS	1741	0.58	2802	0.82	1061	60.94
COMPUTER PROGRAMMERS	792	0.27	1047	0.31	255	32.20
SYSTEMS ANALYSTS,EDP	949	0.32	1755	0.52	806	84.93
SOCIAL SCIENTISTS	371	0.12	455	0.13	84	22.64
ECONOMISTS	79	0.03	118	0.03	39	49.37
FINANCIAL ANALYSTS	57	0.02	90	0.03	33	57.89
ECONOMISTS	22	0.01	28	0.01	6	27.27
PSYCHOLOGISTS	181	0.06	226	0.07	45	24.86
URBAN AND REGIONAL PLANNERS	94	0.03	92	0.03	-2	-2.13
ALL OTHER SOCIAL SCIENTISTS	17	0.01	19	0.01	2	11.76
TEACHERS	11373	3.82	13042	3.83	1669	14.68
TEACHERS,ADULT EDUCATION	492	0.17	671	0.20	179	36.38
COLLEGE & UNIVERSITY TEACHERS	2615	0.88	2465	0.72	-150	-5.74
TEACHERS,VOCATIONAL ED OR TRAIN	146	0.05	183	0.05	37	25.34
TEACHERS,COLLEGE	978	0.33	897	0.26	-81	-8.28
GRADUATE ASSISTANTS	315	0.11	268	0.08	-47	-14.92
EXTENSION SERVICE SPECIALISTS	36	0.01	40	0.01	4	11.11
PROFESSORS	220	0.07	193	0.06	-27	-12.27
ASSOC. PROFESSORS	293	0.10	256	0.08	-37	-12.63
ASST. PROFESSORS	278	0.09	243	0.07	-35	-12.59
LECTURERS	334	0.11	369	0.11	35	10.48
ATHLETIC COACHES	15	0.01	16	0.00	1	6.67
TEACHERS,ELEMENTARY	3722	1.25	4930	1.45	1208	32.46
PRESCH. &/OR ELEM. SCH. TEACHERS	3722	1.25	4930	1.45	1208	32.46
TEACHERS,SECONDARY	4426	1.49	4831	1.42	405	9.15
TEACHERS,NEC	118	0.04	145	0.04	27	22.88
DANCE INSTRUCTORS	41	0.01	53	0.02	12	29.27
INSTRUCTORS,CORRESP. SCH.	7	0.00	8	0.00	1	14.29
ALL OTHER TEACHERS	70	0.02	84	0.02	14	20.00
WRITERS,ARTISTS,ENTERTAINERS	1918	0.64	2300	0.68	382	19.92
ACTORS OR ACTRESSES	9	0.00	12	0.00	3	33.33
ATHLETES & KINDRED WORKERS	270	0.09	386	0.11	116	42.96
SPORTS INSTRUCTORS	173	0.06	236	0.07	63	36.42

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DELAWARE EMPLOYMENT PROJECTIONS BY OCCUPATION
AREA - STATEWIDE

TOTAL WAGE AND SALARY EMPLOYMENT BY OCCUPATION
INCLUDING SELF-EMPLOYED AND UNPAID FAMILY WORKERS

OCCUPATIONAL TITLE	1984 EMPLOYMENT		PROJ. 1990 EMPL.		CHANGE 1984-90	
	NUMBER	PCT.	NUMBER	PCT.	NUMBER	PCT.
UMPIRES	94	0.03	144	0.04	50	53.19
DESIGNING OCCUPATIONS	552	0.19	649	0.19	97	17.57
DESIGNERS	552	0.19	649	0.19	97	17.57
EDITORS & REPORTERS	299	0.10	328	0.10	29	9.70
WRITERS &/OR EDITORS	174	0.06	191	0.06	17	9.77
REPORTERS & CORRESPONDENTS	122	0.04	135	0.04	13	10.66
MUSICIANS	110	0.04	141	0.04	31	28.18
MUSICIANS, INSTRUMENTAL	110	0.04	141	0.04	31	28.18
PAINTERS & SCULPTORS	367	0.12	421	0.12	54	14.71
COMMERCIAL ARTISTS	367	0.12	421	0.12	54	14.71
PHOTOGRAPHIC OCCUPATIONS	80	0.03	98	0.03	18	22.50
TELEVISION CAMERA OPERATORS	7	0.00	7	0.00	0	0.00
PHOTOGRAPHERS	73	0.02	91	0.03	18	24.66
PUBLIC RELATIONS SPECIALISTS	88	0.03	117	0.03	29	32.95
RADIO, TV ANNOUNCERS	143	0.05	148	0.04	5	3.50
ANNOUNCERS	123	0.04	123	0.04	0	0.00
BROADCAST NEWS ANALYSTS	20	0.01	25	0.01	5	25.00
OTH PROFESSIONAL & TECHN WKRS	14205	4.77	16215	4.77	2010	14.15
ACCOUNTING OCCUPATIONS	2953	0.99	3354	0.99	401	13.58
ACCOUNTANTS & AUDITORS	2718	0.91	3111	0.91	393	14.46
TAX EXAMINERS, COLLECTRS, REV AGTS	149	0.05	138	0.04	-11	-7.38
TAX PREPARERS	86	0.03	105	0.03	19	22.09
ARCHITECTS	117	0.04	157	0.05	40	34.19
ARCHIVISTS & CURATORS	34	0.01	34	0.01	0	0.00
MUSEUM CURATORS	32	0.01	32	0.01	0	0.00
BUYING OCCUPATIONS	929	0.31	1015	0.30	86	9.26
PURCHASING AGENTS &/OR BUYERS	516	0.17	530	0.16	14	2.71
MEDIA BUYERS	31	0.01	39	0.01	8	25.81
BUYERS, RETAIL &/OR WHOLSL TRADE	352	0.12	417	0.12	65	18.47
RIGHT-OF-WAY AGENTS	30	0.01	29	0.01	-1	-3.33
CLERGY	654	0.22	825	0.24	171	26.15
DIRECTORS, REL ACT &/OR REL ED	82	0.03	109	0.03	27	32.93
COUNTY AGRIC. SPECIALISTS	10	0.00	11	0.00	1	10.00
FORESTERS & CONSERV SCIENTISTS	34	0.01	33	0.01	-1	-2.94
JUDICIAL OCCUPATIONS	118	0.04	114	0.03	-4	-3.39
JUDGES	37	0.01	36	0.01	-1	-2.70
MAGISTRATES	81	0.03	78	0.02	-3	-3.70
LAWYERS & KINDRED WORKERS	1990	0.67	2281	0.67	291	14.62
LAW CLERKS	111	0.04	126	0.04	15	13.51
LAWYERS	1718	0.58	1883	0.55	165	9.60
PARALEGAL PERSONNEL	161	0.05	272	0.08	111	68.94
LIBRARIANS & RELATED WORKERS	334	0.11	334	0.10	0	0.00
LIBRARIANS	315	0.11	313	0.09	-2	-0.63
AUDIO VISUAL SPECIALISTS	19	0.01	21	0.01	2	10.53
PERSONNEL & EMPLOYMENT WKRS	1045	0.35	1131	0.33	86	8.23
PERSONNEL, LABOR REL SPECIALISTS	769	0.26	796	0.23	27	3.51
EMPLOYMENT INTERVIEWERS	276	0.09	335	0.10	59	21.38
RECREATION WORKERS	483	0.16	558	0.16	75	15.53
GROUP RECREATION WORKERS	482	0.16	556	0.16	74	15.35
SOCIAL WORKERS	1016	0.34	1161	0.34	145	14.27
CASEWORKERS	898	0.30	1015	0.30	117	13.03
COMMUNITY ORGANIZATION WORKERS	118	0.04	146	0.04	28	23.73
VOCATIONAL & EDUC COUNSELORS	650	0.22	757	0.22	107	16.46
MISC PROFESSIONAL WORKERS	3756	1.26	4341	1.28	585	15.58
CURRICULUM SPECIALISTS	56	0.02	62	0.02	6	10.71
HOSPITAL INS REPRESENTATIVES	8	0.00	10	0.00	2	25.00
SAFETY INSPECTORS	12	0.00	16	0.00	4	33.33
COST ESTIMATORS	278	0.09	286	0.08	8	2.88
CREDIT ANALYSTS, CHIEF	38	0.01	58	0.02	20	52.63
CREDIT ANALYSTS	135	0.05	226	0.07	91	67.41
TITLE EXAMINERS &/OR ABSTRACTORS	8	0.00	10	0.00	2	25.00
UNDERWRITERS	139	0.05	190	0.06	51	36.69
INVESTIGATORS, INSURANCE	19	0.01	30	0.01	11	57.89
APPRAISERS, REAL ESTATE	30	0.01	36	0.01	6	20.00
ASSESSORS	29	0.01	29	0.01	0	0.00
CLAIMS TAKERS, UNEMP BENEFITS	29	0.01	29	0.01	0	0.00
BROKER'S FL REPS, SEC TRADRS, ETC	36	0.01	48	0.01	12	33.33
SPECIAL AGENTS, INSURANCE	184	0.06	262	0.08	78	42.39
TRAVEL AGTS, TR ACCOM APPRAISERS	166	0.06	202	0.06	36	21.69
CLAIM EXAMINERS, PRPTY/CSLTY INS	62	0.02	90	0.03	28	45.16
ALL OTHER PROFESSIONAL WORKERS	2524	0.85	2754	0.81	230	9.11

DELAWARE EMPLOYMENT PROJECTIONS BY OCCUPATION
AREA - STATEWIDE

TOTAL WAGE AND SALARY EMPLOYMENT BY OCCUPATION
INCLUDING SELF-EMPLOYED AND UNPAID FAMILY WORKERS

OCCUPATIONAL TITLE	1984 EMPLOYMENT		PROJ. 1990 EMPL.		CHANGE 1984-90	
	NUMBER	PCT.	NUMBER	PCT.	NUMBER	PCT.
MANAGERS & OFFICIALS*******	28338	9.52	31858	9.38	3520	12.42
SALES MANAGERS	736	0.25	883	0.26	147	19.97
MANAGERS,MERCHANDISE	736	0.25	883	0.26	147	19.97
ADMINISTRATORS,PUB INSPECTORS	1205	0.40	1259	0.37	54	4.48
CONSTRUCTION INSPECTORS	89	0.03	88	0.03	-1	-1.12
PUBLIC ADM INSPECTORS,EX CONST	346	0.12	325	0.10	-21	-6.07
CHIEF EXECUTIVES,LEGIS.	225	0.08	216	0.06	-9	-4.00
POSTMASTERS &/OR MAIL SUPERINTS	61	0.02	58	0.02	-3	-4.92
SCHOOL ADMINS,ELEM & SECONDARY	484	0.16	572	0.17	88	18.18
PRINCIPALS	230	0.08	254	0.07	24	10.43
ASST. PRINCIPALS	138	0.05	190	0.06	52	37.68
SUPERINTENDENTS	116	0.04	128	0.04	12	10.34
OTHER MANAGERS,OFFICIALS,PROPS	26397	8.87	29716	8.73	3319	12.57
OFFICERS,PILOTS,PURSERS,SHIP	38	0.01	35	0.01	-3	-7.89
CAPTAINS,WATER VESSEL	38	0.01	35	0.01	-3	-7.89
CONDUCTORS,TRAIN	92	0.03	111	0.03	19	20.65
MANAGERS,REST'RANT,COFFEE SH,ETC	1548	0.52	1646	0.48	98	6.33
OTHER MANAGERS, ADMINISTRATORS	24719	8.30	27924	8.21	3205	12.97
MANAGERS,STORE	4155	1.40	4702	1.38	547	13.16
MANAGERS,AUTO SERVICE DEPT	211	0.07	210	0.06	-1	-0.47
MANAGERS,AUTO PARTS DEPT	145	0.05	139	0.04	-6	-4.14
WHOLESALERS	467	0.16	536	0.16	69	14.78
ALL OTHER MANAGERS	19741	6.63	22337	6.56	2596	13.15
SALES WORKERS*******	21862	7.34	25537	7.50	3675	16.81
INSURANCE AGENTS,BROKERS,ETC	926	0.31	1333	0.39	407	43.95
SALES AGENTS,SALES REPS,INSURNCE	923	0.31	1329	0.39	406	43.99
REAL ESTATE AGENTS,BROKERS	1165	0.39	989	0.29	-176	-15.11
BUSINESS BROKERS	5	0.00	5	0.00	0	0.00
REAL ESTATE BROKERS	45	0.02	32	0.01	-13	-28.89
SALES AGENTS,SALES REPS,REAL EST	1115	0.37	952	0.28	-163	-14.62
STOCK & BOND SALES AGENTS	286	0.10	388	0.11	102	35.66
SALES AGENTS,SALES REPS,FIN SERV	125	0.04	168	0.05	43	34.40
SALES AGENTS,SALES REPS,SECURITY	160	0.05	218	0.06	58	36.25
MISC SALES WORKERS	19485	6.55	22827	6.71	3342	17.15
SALES CLERKS	13034	4.38	15611	4.59	2577	19.77
VENDORS	15	0.01	19	0.01	4	26.67
CONTRIBUTION SOLICITORS	11	0.00	16	0.00	5	45.45
CRATING & MOVING ESTIMATORS	24	0.01	25	0.01	1	4.17
SALES CLERK SUPERVISORS	31	0.01	37	0.01	6	19.35
ALL OTHER SALES WORKERS	6370	2.14	7119	2.09	749	11.76
CLERICAL WORKERS*******	57693	19.38	68924	20.26	11231	19.47
STENOS,SECRETARIES,& TYPISTS	13804	4.64	16867	4.96	3063	22.19
SECRETARIES	9421	3.16	12072	3.55	2651	28.14
STENOGRAPHERS	977	0.33	869	0.26	-108	-11.05
TYPISTS	3406	1.14	3926	1.15	520	15.27
OFFICE MACHINE OPERATORS	3397	1.14	3791	1.11	394	11.60
OFFICE MACHINE OPERATORS	551	0.19	777	0.23	226	41.02
BOOKKEEPING/BILLING MACH OPS	361	0.12	434	0.13	73	20.22
PROOF MACHINE OPERATORS	158	0.05	285	0.08	127	80.38
TRANSIT CLERKS	32	0.01	58	0.02	26	81.25
COMPUTER,PERIPHERAL EQUIP OPS	891	0.30	1278	0.38	387	43.43
COMPUTER OPERATORS	731	0.25	1069	0.31	338	46.24
PERIPHERAL EDP EQPT OPERATORS	160	0.05	209	0.06	49	30.62
DUPLICATING MACHINE OPERATORS	26	0.01	41	0.01	15	57.69
KEYPUNCH OPERATORS	1419	0.48	1131	0.33	-288	-20.30
ALL OTHER OFFICE MACHINE OPS	510	0.17	564	0.17	54	10.59
OTHER CLERICAL WORKERS	40492	13.60	48266	14.18	7774	19.20
BANK TELLERS	1362	0.46	1858	0.55	496	36.42
NEW ACCOUNTS TELLERS	285	0.10	388	0.11	103	36.14
TELLERS	1077	0.36	1470	0.43	393	36.49

DELAWARE EMPLOYMENT PROJECTIONS BY OCCUPATION
AREA - STATEWIDE

TOTAL WAGE AND SALARY EMPLOYMENT BY OCCUPATION
INCLUDING SELF-EMPLOYED AND UNPAID FAMILY WORKERS

OCCUPATIONAL TITLE	1984 EMPLOYMENT		PROJ. 1990 EMPL.		CHANGE 1984-90	
	NUMBER	PCT.	NUMBER	PCT.	NUMBER	PCT.
BOOKKEEPERS	5163	1.73	5823	1.71	660	12.78
ACCOUNTING CLERKS	2938	0.99	3307	0.97	369	12.56
BOOKKEEPERS,HAND	2225	0.75	2516	0.74	291	13.08
CASHIERS	4422	1.49	5637	1.66	1215	27.48
CLERICAL SUPERVISORS	1473	0.49	1946	0.57	473	32.11
COLLECTORS	610	0.20	999	0.29	389	63.77
COUNTER CLERKS,EX FOOD	901	0.30	998	0.29	97	10.77
CAR RENTAL CLERKS	34	0.01	39	0.01	5	14.71
DESK CLERKS	213	0.07	233	0.07	20	9.39
ORDER CLERKS	557	0.19	606	0.18	49	8.80
CIRCULATION CLERKS	26	0.01	27	0.01	1	3.85
TELEPHONE AD TAKERS,NEWSPAPER	21	0.01	22	0.01	1	4.76
DESK CLERKS,BOWLING FLOOR	49	0.02	70	0.02	21	42.86
DISPATCHERS,STARTERS,VEHICLE	316	0.11	332	0.10	16	5.06
DISPATCHERS,POLICE,FIRE,AMBULNCE	97	0.03	96	0.03	-1	-1.03
DISPATCHERS,VEHICLE,SERV OR WK	219	0.07	236	0.07	17	7.76
SURVEY WORKERS	96	0.03	127	0.04	31	32.29
ESTIMATORS,INVESTIGATORS,NEC	971	0.33	1481	0.44	510	52.52
CREDIT AUTHORIZERS	65	0.02	73	0.02	8	12.31
ADJUSTMENT CLERKS	613	0.21	979	0.29	366	59.71
CLAIMS CLERKS	276	0.09	404	0.12	128	46.38
CREDIT REPORTERS	11	0.00	16	0.00	5	45.45
PRODUCTION CLERKS	281	0.09	318	0.09	37	13.17
FILE CLERKS & RELATED WORKERS	1122	0.38	1332	0.39	210	18.72
FILE CLERKS	840	0.28	1008	0.30	168	20.00
PERSONNEL CLERKS	253	0.08	292	0.09	39	15.42
ADMISSIONS EVALUATORS	29	0.01	32	0.01	3	10.34
CLAIM WORKERS,INSURANCE	404	0.14	616	0.18	212	52.48
CLAIM EXAMINERS,INSURANCE	211	0.07	298	0.09	87	41.23
CLAIM ADJUSTERS	193	0.06	318	0.09	125	64.77
LIBRARY ASSISTANTS	239	0.08	259	0.08	20	8.37
POSTAL MAIL CARRIERS	1149	0.39	1195	0.35	46	4.00
MAIL HANDLERS,EX POSTAL SERV	219	0.07	319	0.09	100	45.66
MAIL CLERKS	219	0.07	319	0.09	100	45.66
MESSENGERS & OFFICER HELPERS	134	0.05	177	0.05	43	32.09
MESSENGERS,BANK	14	0.00	24	0.01	10	71.43
MESSENGERS	120	0.04	153	0.04	33	27.50
METER READERS	95	0.03	94	0.03	-1	-1.05
PAYROLL/TIMEKEEPING CLERKS	566	0.19	646	0.19	80	14.13
POSTAL SERVICE CLERKS	266	0.09	238	0.07	-28	-10.53
PROOFREADERS	28	0.01	30	0.01	2	7.14
PROOFREADERS,COMPOSED COPY	25	0.01	26	0.01	1	4.00
RECEPTIONISTS & RELATED WKRS	1558	0.52	1893	0.56	335	21.50
RECEPTIONISTS	1105	0.37	1339	0.39	234	21.18
SWITCHBD OPS/RECEPTIONISTS	425	0.14	520	0.15	95	22.35
TRAVEL COUNSELORS,AUTO CLUB	28	0.01	34	0.01	6	21.43
SHIPPING,RECEIVING OCCUPS	1643	0.55	1887	0.55	244	14.85
SHIPPING & RECEIVING CLERKS	664	0.22	754	0.22	90	13.55
SHIPPING PACKERS	975	0.33	1129	0.33	154	15.79
STATISTICAL CLERKS	513	0.17	638	0.19	125	24.37
ACTUARIAL CLERKS	12	0.00	16	0.00	4	33.33
BROKERAGE CLERKS	20	0.01	25	0.01	5	25.00
TRADE RECORDERS	8	0.00	11	0.00	3	37.50
MARGIN CLERKS	22	0.01	21	0.01	-1	-4.55
RATERS	140	0.05	193	0.06	53	37.86
STATISTICAL CLERKS	176	0.06	208	0.06	32	18.18
WORKSHEET CLERKS	19	0.01	24	0.01	5	26.32
COURT CLERKS	44	0.01	43	0.01	-1	-2.27
INSURANCE CHECKERS	68	0.02	93	0.03	25	36.76
STOCK CLERKS,STORE KEEPERS	2145	0.72	2392	0.70	247	11.52
PROCUREMENT CLERKS	118	0.04	127	0.04	9	7.63
STOCK CLERKS,STOCKRM,WAREHS,ETC	2027	0.68	2265	0.67	238	11.74
TEACHERS AIDES/EDUC ASSISTANTS	1196	0.40	1378	0.40	182	15.22
TELEGRAPH OPERATORS	22	0.01	23	0.01	1	4.55

DELAWARE EMPLOYMENT PROJECTIONS BY OCCUPATION
AREA - STATEWIDE

TOTAL WAGE AND SALARY EMPLOYMENT BY OCCUPATION
INCLUDING SELF-EMPLOYED AND UNPAID FAMILY WORKERS

OCCUPATIONAL TITLE	1984 EMPLOYMENT		PROJ. 1990 EMPL.		CHANGE 1984-90	
	NUMBER	PCT.	NUMBER	PCT.	NUMBER	PCT.
TELEPHONE OPERATORS	672	0.23	710	0.21	38	5.65
SWITCHBOARD OPERATORS	436	0.15	485	0.14	49	11.24
CENTRAL OFFICE OPERATORS	197	0.07	184	0.05	-13	-6.60
DIRECTORY ASSISTANCE OPERATORS	39	0.01	41	0.01	2	5.13
TICKET,STATION,EXPRESS AGENTS	71	0.02	66	0.02	-5	-7.04
STATION AGENTS	10	0.00	8	0.00	-2	-20.00
TRAFFIC AGENTS	20	0.01	20	0.01	0	0.00
TICKET AGENTS	37	0.01	34	0.01	-3	-8.11
WEIGHERS,RECORD KEEPING	22	0.01	22	0.01	0	0.00
ALL OTHER CLERICAL WORKERS	12830	4.31	14829	4.36	1999	15.58
LOAN CLOSERS	57	0.02	75	0.02	18	31.58
CANCELLATION CLERKS	9	0.00	12	0.00	3	33.33
SERVICE REPRESENTATIVES	238	0.08	244	0.07	6	2.52
MEDIA CLERKS/ESTIMATORS/BILLERS	6	0.00	9	0.00	3	50.00
GENERAL CLERKS,OFFICE	8005	2.69	8986	2.63	981	12.00
IN-FILE OPERATORS	10	0.00	14	0.00	4	40.00
SECURITIES CASHIERS,EXCHANGE	6	0.00	9	0.00	3	50.00
POLICY CHANGE CLERKS	61	0.02	84	0.02	23	37.70
PURCHASE & SALES CLERKS,SECURITY	5	0.00	5	0.00	0	0.00
REAL ESTATE CLERKS	75	0.03	73	0.02	-2	-2.67
STATEMENT CLERKS	118	0.04	210	0.06	92	77.97
SERVICE CLERKS	179	0.06	194	0.06	15	8.38
TITLE SEARCHERS	18	0.01	23	0.01	5	27.78
TRAFFIC CLERKS	10	0.00	11	0.00	1	10.00
PROTECTIVE SIGNAL OPERATORS	24	0.01	32	0.01	8	33.33
RATE CLERKS,FREIGHT	22	0.01	22	0.01	0	0.00
TOWN CLERKS	18	0.01	17	0.00	-1	-5.56
CREDIT CLERKS,BANK&/ORINSURANCE	478	0.16	803	0.24	325	67.99
MORTGAGE CLOSING CLERKS	17	0.01	23	0.01	6	35.29
INSURANCE CLERKS	11	0.00	19	0.01	8	72.73
INSURANCE CLERKS,MEDICAL	165	0.06	208	0.06	43	26.06
LICENSE CLERKS	16	0.01	15	0.00	-1	-6.25
ALL OTHER OFFICE CLERICAL WKRS	2600	0.87	3056	0.90	456	17.54
ALL OTHER PLANT CLERICAL WKRS	667	0.22	686	0.20	19	2.85
CRAFTS & KINDRED WORKERS*****	34386	11.55	36964	10.86	2578	7.50
CONTRUCTION CRAFTS WORKERS	10917	3.67	11550	3.39	633	5.80
CARPENTERS	2886	0.97	2988	0.88	102	3.53
CARPENTERS	2883	0.97	2984	0.88	101	3.50
BRICKMASONS & STONEMASONS	630	0.21	723	0.21	93	14.76
BRICKLAYERS	565	0.19	655	0.19	90	15.93
STONE MASONS	47	0.02	49	0.01	2	4.26
REFRACTORY MATERIALS REPAIRERS	18	0.01	19	0.01	1	5.56
LOGGING TRACTOR OPERATORS	13	0.00	10	0.00	-3	-23.08
CEMENT MASONS	343	0.12	367	0.11	24	7.00
CEMENT MASONS	336	0.11	360	0.11	24	7.14
CONCRETE RUBBERS	7	0.00	7	0.00	0	0.00
ELECTRICIANS	2058	0.69	2202	0.65	146	7.10
EXCAVATING,GRADING MACH OPS	970	0.33	1013	0.30	43	4.43
CONCRETE MIXER OPERATORS	10	0.00	15	0.00	5	50.00
FORM TAMPER OPERATORS,ETC	6	0.00	6	0.00	0	0.00
HEAVY EQUIPMENT OPERATORS	901	0.30	933	0.27	32	3.55
BATCH PLANT OPERATORS	24	0.01	30	0.01	6	25.00
BALLAST CLEAN MACH OPERATORS,ETC	25	0.01	25	0.01	0	0.00
FLOOR SANDING MACHINE OPERATORS	98	0.03	73	0.02	-25	-25.51
PAINTERS,MAINTENANCE	1383	0.46	1502	0.44	119	8.60
PAPERHANGERS	42	0.01	50	0.01	8	19.05
PLASTERERS & RELATED OCCUPS	86	0.03	69	0.02	-17	-19.77
PLASTERERS	86	0.03	69	0.02	-17	-19.77
PLUMBERS & PIPEFITTERS	1702	0.57	1793	0.53	91	5.35
PLUMBERS &/OR PIPEFITTERS	1701	0.57	1792	0.53	91	5.35
ROOFERS	359	0.12	384	0.11	25	6.96
STRUCTURAL STEEL WORKERS	271	0.09	291	0.09	20	7.38
TILE INSTALLING OCCUPS	78	0.03	85	0.02	7	8.97
TILE SETTERS	28	0.01	31	0.01	3	10.71
CEILING TILE INSTALLRS,FLR LAYRS	50	0.02	54	0.02	4	8.00

DELAWARE EMPLOYMENT PROJECTIONS BY OCCUPATION
AREA - STATEWIDE

TOTAL WAGE AND SALARY EMPLOYMENT BY OCCUPATION
INCLUDING SELF-EMPLOYED AND UNPAID FAMILY WORKERS

OCCUPATIONAL TITLE	1984 EMPLOYMENT		PROJ. 1990 EMPL.		CHANGE 1984-90	
	NUMBER	PCT.	NUMBER	PCT.	NUMBER	PCT.
BLUE COLLAR WORKER SUPVSRS	3910	1.31	4089	1.20	179	4.58
SUPERVISORS,NONWORKING	3910	1.31	4089	1.20	179	4.58
METAL WKG CRAFTS WKRS,EX MECH	2228	0.75	2304	0.68	76	3.41
BLACKSMITHS	5	0.00	4	0.00	-1	-20.00
BOILERMAKERS	190	0.06	203	0.06	13	6.84
HEAT TREATERS,ANNEALERS,ETC	16	0.01	17	0.00	1	6.25
FORGE & HAMMER OPERATORS	12	0.00	12	0.00	0	0.00
HAMMERSMITHS,OPEN DIE	12	0.00	12	0.00	0	0.00
JOB & DIE SETTERS,METAL	78	0.03	92	0.03	14	17.95
MACHINE TOOL SETTERS,METALWRKING	36	0.01	40	0.01	4	11.11
SHEAR &/OR SLITTER SETTERS	26	0.01	27	0.01	1	3.85
SETTERS,PLASTIC MOLDING MACHINE	12	0.00	21	0.01	9	75.00
MACHINING OCCUPATIONS	710	0.24	748	0.22	38	5.35
LAYOUT MARKERS,METAL	24	0.01	24	0.01	0	0.00
MACHINISTS	686	0.23	724	0.21	38	5.54
MILLWRIGHTS	442	0.15	440	0.13	-2	-0.45
MOLDERS,METAL	21	0.01	15	0.00	-6	-28.57
MOLDERS,MACHINE(METAL)	15	0.01	10	0.00	-5	-33.33
ROLLERS & FINISHERS,METAL	7	0.00	7	0.00	0	0.00
SHEET METAL WORKERS	655	0.22	670	0.20	15	2.29
TOOLMAKERS & DIEMAKERS	88	0.03	91	0.03	3	3.41
TOOL & DIE MAKERS	88	0.03	91	0.03	3	3.41
MECHS,REPAIRERS,INSTALLERS	7854	2.64	8568	2.52	712	9.07
REFRIG MECHANICS,A/C MECHANICS	551	0.19	597	0.18	46	8.35
AIRCRAFT MECHANICS	427	0.14	413	0.12	-14	-3.28
AUTO BODY REPAIRERS	442	0.15	423	0.12	-19	-4.30
AUTOMOTIVE MECHANICS	2718	0.91	2890	0.85	172	6.33
AUTOMOTIVE MECHANICS	2704	0.91	2876	0.85	172	6.36
AUTO REPAIR SERVICE ESTIMATORS	14	0.00	14	0.00	0	0.00
DATA PROCESSING MACH MECHANICS	66	0.02	153	0.04	87	131.82
FARM EQUIPMENT MECHANICS	49	0.02	58	0.02	9	18.37
HEAVY EQUIP MECHS,INC DIESEL	1662	0.56	1841	0.54	179	10.77
ENGINEERING EQUIPMT MECHANICS	141	0.05	147	0.04	6	4.26
HYDROELECTRIC MACHINE MECHS,ETC	56	0.02	55	0.02	-1	-1.79
MARINE MECHANICS/REPAIRERS	38	0.01	39	0.01	1	2.63
MAINTENANCE MECHANICS	1387	0.47	1561	0.46	174	12.55
TREATMENT PLANT MECHANICS	35	0.01	35	0.01	0	0.00
SECTION REPAIRERS & SETTERS	5	0.00	4	0.00	-1	-20.00
HOUSEHOLD APPL MECHS & INST	326	0.11	363	0.11	37	11.35
ELECTRIC METER INSTALLERS,ETC	14	0.00	13	0.00	-1	-7.14
GAS & ELEC APPLIANCE REPAIRERS	269	0.09	301	0.09	32	11.90
HOUSEHOLD APPLIANCE INSTALLERS	30	0.01	36	0.01	6	20.00
WATER METER INSTALLERS	13	0.00	13	0.00	0	0.00
OFF MACH SERVICERS/CASH REG SERV	89	0.03	155	0.05	66	74.16
RADIO & TV SERVICERS & REPAIRERS	91	0.03	97	0.03	6	6.59
RAILROAD CAR SHOP REPAIRERS	53	0.02	54	0.02	1	1.89
SIGNAL MAINTAINERS	13	0.00	13	0.00	0	0.00
CAR REPAIRERS	39	0.01	40	0.01	1	2.56
OTH MECHANICS,REPAIRERS,INST	1380	0.46	1522	0.45	142	10.29
BICYCLE REPAIRERS	48	0.02	62	0.02	14	29.17
ELECTRIC MOTOR REPAIRERS	26	0.01	29	0.01	3	11.54
GASOLINE ENGINE,MOWER REPAIRERS	42	0.01	47	0.01	5	11.90
LOCKSMITHS	9	0.00	9	0.00	0	0.00
COIN MACHINE SERVICERS,REPAIRERS	118	0.04	149	0.04	31	26.27
SEWING MACHINE MECHANICS	8	0.00	10	0.00	2	25.00
PROTECTIVE SIGNAL INST/REPAIRERS	76	0.03	100	0.03	24	31.58
INSTRUMENT REPAIRERS	255	0.09	239	0.07	-16	-6.27
DIESEL MECHANICS	294	0.10	319	0.09	25	8.50
ELECTROMEDICAL EQUIPMT REPAIRERS	12	0.00	14	0.00	2	16.67
PINSETTER MECHANICS,AUTOMATIC	38	0.01	54	0.02	16	42.11
ALL OTHER MECHANICS & REPAIRERS	443	0.15	479	0.14	36	8.13
PRINTING TRADE CRAFTS WKRS	873	0.29	972	0.29	99	11.34
BOOKBINDING OCCUPATIONS	189	0.06	184	0.05	-5	-2.65
SETTERS,BINDERY MACHINES	5	0.00	5	0.00	0	0.00
BOOKBINDERS,MACHINE	24	0.01	27	0.01	3	12.50
BINDERY WORKERS,ASSEMBLY	122	0.04	118	0.03	-4	-3.28
ALL OTHER BINDERY WORKERS	33	0.01	29	0.01	-4	-12.12

DELAWARE EMPLOYMENT PROJECTIONS BY OCCUPATION
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INCLUDING SELF-EMPLOYED AND UNPAID FAMILY WORKERS

OCCUPATIONAL TITLE	1984 EMPLOYMENT		PROJ. 1990 EMPL.		CHANGE 1984-90	
	NUMBER	PCT.	NUMBER	PCT.	NUMBER	PCT.
COMPOSITORS &/OR TYPESETTERS	253	0.08	268	0.08	15	5.93
PHOTOENGRAVERS,LITHOGRAPHERS	98	0.03	116	0.03	18	18.37
STRIPPERS PRINTING	27	0.01	35	0.01	8	29.63
CAMERA OPERATORS,PRINTING	49	0.02	58	0.02	9	18.37
PHOTOENGRAVERS	22	0.01	23	0.01	1	4.55
PRESS & PLATE PRINTERS	330	0.11	401	0.12	71	21.52
PRESS OPERATORS,PLATE PRINTERS	54	0.02	66	0.02	12	22.22
OFFSET LITHOGRAPHIC PRESS OPS	165	0.06	197	0.06	32	19.39
PLATEMAKERS	21	0.01	48	0.01	27	128.57
LETTER PRESS OPERATORS	58	0.02	57	0.02	-1	-1.72
LETTERSET PRESS OPERATORS	28	0.01	29	0.01	1	3.57
TRANS,PUB UTIL CRAFTS WKRS	901	0.30	936	0.28	35	3.88
ELEC POWER LINE INST,REPAIRS	300	0.10	303	0.09	3	1.00
CABLE SPLICERS	115	0.04	119	0.03	4	3.48
LINE INSTALLERS,REPAIRERS	135	0.05	135	0.04	0	0.00
TROUBLE SHOOTERS,POWER LINE	50	0.02	49	0.01	-1	-2.00
LOCOMOTIVE ENGINEER OCCUPS	173	0.06	222	0.07	49	28.32
YARD ENGINEERS	46	0.02	63	0.02	17	36.96
HOSTLERS	84	0.03	102	0.03	18	21.43
LOCOMOTIVE ENGINEERS	43	0.01	57	0.02	14	32.56
FIRERS,LOCOMOTIVE	19	0.01	5	0.00	-14	-73.68
SWITCHBOARD OPS,GENERATING PLANT	23	0.01	22	0.01	-1	-4.35
TELEPHONE INSTALLERS,REPAIRS	386	0.13	384	0.11	-2	-0.52
INSTALLERS,REPAIRERS,SEC MAINTS	112	0.04	127	0.04	15	13.39
STATION INSTALLERS	98	0.03	112	0.03	14	14.29
FRAME WIRERS	18	0.01	19	0.01	1	5.56
CENTRAL OFFICE REPAIRERS	126	0.04	102	0.03	-24	-19.05
TROUBLE LOCATORS,TEST DESK	29	0.01	21	0.01	-8	-27.59
OTHER CRAFTS,KINDRED WORKERS	7703	2.59	8547	2.51	844	10.96
BAKING OCCUPATIONS	52	0.02	63	0.02	11	21.15
BAKERS	52	0.02	63	0.02	11	21.15
CABINETMAKERS	155	0.05	177	0.05	22	14.19
CARPET CUTTERS,CARPET LAYERS	167	0.06	180	0.05	13	7.78
CRANE,DERRICK,HOIST OCCUPS	292	0.10	313	0.09	21	7.19
CRANE,DERRICK,& HOIST OPERATORS	285	0.10	305	0.09	20	7.02
LOADER ENGINEERS	7	0.00	8	0.00	1	14.29
MERCHAN DISPLAYERS & WIND TRMRS	58	0.02	69	0.02	13	23.21
DENTAL LAB TECHNICIANS	59	0.02	76	0.02	17	28.81
FURNITURE FINISHERS	37	0.01	38	0.01	1	2.70
GLAZING OCCUPATIONS	136	0.05	149	0.04	13	9.56
GLASS INSTALLERS	45	0.02	49	0.01	4	8.89
GLAZIERS	91	0.03	100	0.03	9	9.89
INSPECTORS,LOG & LUMBER	5	0.00	6	0.00	1	20.00
OTHER INSPECTION OCCUPS	1675	0.56	1887	0.55	212	12.66
INSPECTORS	1333	0.45	1551	0.46	218	16.35
TESTERS	342	0.11	336	0.10	-6	-1.75
JEWELERS & WATCHMAKERS	62	0.02	73	0.02	11	17.74
JEWELERS &/OR SILVERSMITHS	44	0.01	55	0.02	11	25.00
WATCHMAKERS	18	0.01	18	0.01	0	0.00
MILLING OCCS,GRAIN,FLOUR,FEED	8	0.00	9	0.00	1	12.50
MILLERS	8	0.00	9	0.00	1	12.50
MOTION PICTURE PROJECTIONISTS	30	0.01	24	0.01	-6	-20.00
OPTICIANS,LENS GRINDRS,POLISH	26	0.01	33	0.01	7	26.92
OPTICIANS,DISP &/OR OPTIC MECHS	22	0.01	28	0.01	6	27.27
SHOE REPAIRING OCCUPATIONS	27	0.01	45	0.01	18	66.67
SHOE REPAIRERS	27	0.01	45	0.01	18	66.67
STATIONARY ENGINEERING OCCUPS	463	0.16	444	0.13	-19	-4.10
CONTROL ROOM OPERATORS,STEAM	37	0.01	26	0.01	-11	-29.73
DIESEL PLANT OPERATORS	53	0.02	53	0.02	0	0.00
AUXILIARY EQUIPMENT OPERATORS	12	0.00	7	0.00	-5	-41.67
SEWAGE PLANT OPERATORS	48	0.02	34	0.01	-14	-29.17
STATIONARY ENGINEERS	215	0.07	229	0.07	14	6.51
TURBINE OPERATORS	11	0.00	11	0.00	0	0.00
WASTE TREATMENT PLANT OPS,CHEM	19	0.01	18	0.01	-1	-5.26
WATER TREATMENT PLANT OPERATORS	55	0.02	54	0.02	-1	-1.82
SHIP ENGINEERS	8	0.00	7	0.00	-1	-12.50

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INCLUDING SELF-EMPLOYED AND UNPAID FAMILY WORKERS

OCCUPATIONAL TITLE	1984 EMPLOYMENT		PROJ. 1990 EMPL.		CHANGE 1984-90	
	NUMBER	PCT.	NUMBER	PCT.	NUMBER	PCT.
TAILORS	125	0.04	161	0.05	36	28.80
ALTERATION TAILORS	122	0.04	159	0.05	37	30.33
UPHOLSTERING OCCUPATIONS	150	0.05	156	0.05	6	4.00
FURNITURE UPHOLSTERERS	150	0.05	156	0.05	6	4.00
CRAFTS & KINDRED WORKERS,NEC	4174	1.40	4640	1.36	466	11.16
GLASS BLOWERS	6	0.00	7	0.00	1	16.67
MACHINE SETTERS,PAPER GOODS	16	0.01	17	0.00	1	6.25
MAINTENANCE REPAIRERS,GEN UTIL	2396	0.80	2723	0.80	327	13.65
MOBILE HOME REPAIRERS	18	0.01	20	0.01	2	11.11
MUSICAL INSTRUMENTS REPAIRERS	13	0.00	10	0.00	-3	-23.08
ALL OTHER SKILLED CRAFT WORKERS	1725	0.58	1862	0.55	137	7.94
OPERATIVES*******	35106	11.79	38990	10.87	1884	5.37
OPERATIVES,EX TRANSPORTATION	19349	6.50	19507	5.73	158	0.82
SEMISKILLED METALWORKING OPS	2226	0.75	2179	0.64	-47	-2.11
DRILL PRESS OPERATIVES	41	0.01	42	0.01	1	2.44
DRILL PRESS/BORING MACHINE OPS	41	0.01	42	0.01	1	2.44
FURNACE TNDRS,SMELTERS,POURERS	31	0.01	32	0.01	1	3.23
POURERS,METAL	14	0.00	15	0.00	1	7.14
FURNACE OPERATORS,CUPOLA TENDERS	14	0.00	14	0.00	0	0.00
GRINDING/ABRADING MACH OPS,METAL	41	0.01	40	0.01	-1	-2.44
HEATERS,METAL	8	0.00	9	0.00	1	12.50
LATHE,MILLING MACH OPERATIVES	85	0.03	83	0.02	-2	-2.35
GLASS-BLOWING LATHE OPERATORS	6	0.00	7	0.00	1	16.67
LATHE MACH OPERATORS,METAL	65	0.02	63	0.02	-2	-3.08
MILLING/PLANING MACHINE OPERATRS	14	0.00	13	0.00	-1	-7.14
METAL PLATERS	14	0.00	14	0.00	0	0.00
ELECTROPLATERS	8	0.00	8	0.00	0	0.00
DIP PLATERS,NONELECTROLYTIC	6	0.00	6	0.00	0	0.00
OTHER PRECISION MACH OPS	315	0.11	327	0.10	12	3.81
MACHINE TOOL OPERATORS,COMBO	220	0.07	219	0.06	-1	-0.45
MACHINE TOOL OPERATORS,NUM CONT	36	0.01	39	0.01	3	8.33
WOOD MACHINISTS	59	0.02	69	0.02	10	16.95
POWER PRESS OPERATIVES	294	0.10	315	0.09	21	7.14
PUNCH PRESS OPERATORS,METAL	161	0.05	165	0.05	4	2.48
PUNCH PRESS OPERATORS,PLASTICS	31	0.01	50	0.01	19	61.29
POWER BRAKE,BENDING MACH OPS,MET	102	0.03	100	0.03	-2	-1.96
WELDERS & FLAME CUTTERS	1397	0.47	1317	0.39	-80	-5.73
WELDERS & FLAMECUTTERS	1397	0.47	1317	0.39	-80	-5.73
SEMISKILLED TEXTILE OPERATIVES	245	0.08	196	0.06	-49	-20.00
CARDING,LAPPING,COMBING OPS	13	0.00	11	0.00	-2	-15.38
CARD TENDRS,COMBER TENDRS,ETC	7	0.00	6	0.00	-1	-14.29
PICKER TENDERS	6	0.00	5	0.00	-1	-16.67
KNITTERS,LOOPERS,& TOPPERS	12	0.00	9	0.00	-3	-25.00
KNITTING MACHINE OPERATORS	12	0.00	9	0.00	-3	-25.00
SPINNERS,TWISTERS,& WINDERS	129	0.04	109	0.03	-20	-15.50
BEAM WARPER TENDERS &/OR BEAMERS	8	0.00	6	0.00	-2	-25.00
CLOTH OR CARPET WINDERS	8	0.00	6	0.00	-2	-25.00
CREELERS,YARN	31	0.01	25	0.01	-6	-19.35
DOFFERS	65	0.02	57	0.02	-8	-12.31
YARN WINDERS	16	0.01	14	0.00	-2	-12.50
OTHER TEXTILE OCCUPATIONS	91	0.03	67	0.02	-24	-26.37
BOIL-OFF MACHINE OPERATORS,CLOTH	15	0.01	12	0.00	-3	-20.00
CLOTH PRINTERS	14	0.00	12	0.00	-2	-14.29
TENTER FRAME OPERATORS	25	0.01	13	0.00	-12	-48.00
TURNERS	11	0.00	9	0.00	-2	-18.18
FOLDERS,HAND	18	0.01	14	0.00	-4	-22.22
SEMISKLD PACKNG,INSPECTNG OPS	1263	0.42	1413	0.42	150	11.88
GRADERS & SORTERS,MFG	96	0.03	102	0.03	6	6.25
GRADERS,FOOD &/OR SKINS	95	0.03	101	0.03	6	6.32
PACKERS,WRAPPERS,EX MEAT & PROD	1167	0.39	1311	0.39	144	12.34
PRODUCTION PACKAGERS	998	0.34	1136	0.33	138	13.83
BUNDLERS	12	0.00	9	0.00	-3	-25.00
BAGGERS	157	0.05	166	0.05	9	5.73

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INCLUDING SELF-EMPLOYED AND UNPAID FAMILY WORKERS

OCCUPATIONAL TITLE	1984 EMPLOYMENT		PROJ. 1990 EMPL.		CHANGE 1984-90	
	NUMBER	PCT.	NUMBER	PCT.	NUMBER	PCT.
OTHER OPERATIVES,EX TRANSPORT	15815	5.25	15719	4.62	104	0.67
ASBESTOS & INSULATION WORKERS	230	0.08	254	0.07	24	10.43
ASSEMBLERS	3695	1.24	3483	1.02	-212	-5.74
MOBILE HOME SET-UP OPERATORS	53	0.02	62	0.02	9	16.98
WIRERS,ELECTRONIC	35	0.01	34	0.01	-1	-2.86
ELECTROLYTIC CELL MKRS,REPAIRERS	15	0.01	15	0.00	0	0.00
ASSEMBLERS	440	0.15	482	0.14	42	9.55
MACHINE ASSEMBLERS	63	0.02	62	0.02	-1	-1.59
INSTRUMENT MAKERS/ASSEMBLERS	5	0.00	4	0.00	-1	-20.00
ELEC MECH EQUIPMT ASSEMBLERS	24	0.01	24	0.01	0	0.00
ELEC & ELECT ASSEMBLERS	212	0.07	210	0.06	-2	-0.94
ALL OTHER ASSEMBLERS	2848	0.96	2590	0.76	-258	-9.06
SURVEYOR HELPERS	131	0.04	146	0.04	15	11.45
CLOTHING IRONERS & PRESSERS	370	0.12	455	0.13	85	22.97
PRESSERS,HAND	46	0.02	47	0.01	1	2.17
PRESSERS,MACHINE	112	0.04	142	0.04	30	26.79
PRESSERS,MACHINE,LAUNDRY	189	0.06	246	0.07	57	30.16
PLEATING MACHINE OPERATORS	16	0.01	13	0.00	-3	-18.75
SHAPERS & PRESSERS	7	0.00	7	0.00	0	0.00
CUTTING OPERATIVES,NEC	140	0.05	144	0.04	4	2.86
CUTTERS,MACHINE	48	0.02	51	0.01	3	6.25
CUTTERS,PORTABLE MACHINE	12	0.00	9	0.00	-3	-25.00
DIE CUTTERS,CLICKING MACH OPS	12	0.00	14	0.00	2	16.67
SHEAR &/OR SLITTER OPERATORS,MET	53	0.02	54	0.02	1	1.89
SEWERS,CUSTOM	32	0.01	35	0.01	3	9.38
DRY WALL INSTALLERS,LATHERS	392	0.13	406	0.12	14	3.57
DRY WALL APPLICATORS	227	0.08	245	0.07	18	7.93
LATHERS	37	0.01	22	0.01	-15	-40.54
TAPERS	128	0.04	139	0.04	11	8.59
DYERS	9	0.00	8	0.00	-1	-11.11
DYE RANGE OPS/SP DYE BECK TNDRS	5	0.00	5	0.00	0	0.00
FILERS,POLISHRS,SANDRS,BUFFRS	335	0.11	365	0.11	30	8.96
FILERS,GRINDERS,BUFFERS,CHIPPERS	313	0.11	341	0.10	28	8.95
SANDBLASTERS/SHOTBLASTERS	13	0.00	13	0.00	0	0.00
POLISHERS,GLASS &/OR BLOCKERS	8	0.00	10	0.00	2	25.00
GARAGE WORKERS,GAS STAT ATTNS	1058	0.35	985	0.29	-73	-6.91
FUEL PUMP ATTENDANTS,LUBRICATORS	868	0.29	787	0.23	-81	-9.33
TIRE CHANGERS	186	0.06	194	0.06	8	4.30
LAUNDRY,DRYCLEANING OPS,NEC	368	0.12	466	0.14	98	26.6
MARKERS,CLASSIFIERS,ASSEMBLERS	15	0.01	17	0.00	2	13.3
SPOTTERS,DRYCLEANING	8	0.00	10	0.00	2	25.00
WASHERS,MACH &/OR STARCHERS	134	0.05	163	0.05	29	21.64
TUMBLER OPERATORS	8	0.00	10	0.00	2	25.00
DRYCLEANING MACHINE OPERATORS	41	0.01	63	0.02	22	53.66
LAUNDRY OPERATORS,SM ESTABLHMT	108	0.04	133	0.04	25	23.15
RUG CLEANERS,HAND	25	0.01	32	0.01	7	28.00
FOLDERS,LAUNDRY	23	0.01	29	0.01	6	26.09
MEAT CUTTERS,BUTCHERS	369	0.12	395	0.12	26	7.05
BONERS,POULTRY	365	0.12	391	0.11	26	7.12
MINE OPERATIVES,NEC	26	0.01	30	0.01	4	15.38
GAGERS	6	0.00	5	0.00	-1	-16.67
ROUSTABOUTS	5	0.00	6	0.00	1	20.00
MILL &/OR GRINDER OPS,MINERALS	13	0.00	17	0.00	4	30.77
MIXING OPERATIVES	239	0.08	248	0.07	9	3.77
ASPHALT-PLANT OPERATORS	11	0.00	10	0.00	-1	-9.09
COATING MIXER TENDERS	7	0.00	7	0.00	0	0.00
COMPOUNDERS	13	0.00	12	0.00	-1	-7.69
MIXERS,FOOD & TOBACCO	202	0.07	213	0.06	11	5.45
OILERS	59	0.02	62	0.02	3	5.08
PAINTERS,MFG ARTICLES	604	0.20	537	0.16	-67	-11.09
PAINTERS,AUTOMOTIVE	169	0.06	184	0.05	15	8.88
PAINTERS,PRODUCTION	435	0.15	353	0.10	-82	-18.85
OTHER PHOTO PROCESS WORKERS	70	0.02	93	0.03	23	32.86
RIVETERS & FASTENERS	24	0.01	26	0.01	2	8.33
NAILING MACHINE OPERATORS	9	0.00	10	0.00	1	11.11
RIVETERS,LIGHT	13	0.00	14	0.00	1	7.69
SAILORS & DECKHANDS	58	0.02	53	0.02	-5	-8.62

DELAWARE EMPLOYMENT PROJECTIONS BY OCCUPATION
AREA - STATEWIDE

TOTAL WAGE AND SALARY EMPLOYMENT BY OCCUPATION
INCLUDING SELF-EMPLOYED AND UNPAID FAMILY WORKERS

OCCUPATIONAL TITLE	1984 EMPLOYMENT		PROJ. 1990 EMPL.		CHANGE 1984-90	
	NUMBER	PCT.	NUMBER	PCT.	NUMBER	PCT.
ORDINARY SEAMEN	58	0.02	53	0.02	-5	-8.62
SAWYERS	41	0.01	52	0.02	11	26.83
CUT-OFF SAW OPERATORS,LUMBER	11	0.00	13	0.00	2	18.18
RIPSAW OPERATORS	10	0.00	12	0.00	2	20.00
SAWYERS,PLASTICS	7	0.00	12	0.00	5	71.43
SEWERS & STITCHERS	856	0.29	683	0.20	-173	-20.21
MENDERS	14	0.00	21	0.01	7	50.00
SEWING MACH OPS,REG EQMT,NONGAR	56	0.02	61	0.02	5	8.93
GARMENT REPAIRERS	7	0.00	4	0.00	-3	-42.86
SEWING MACH OPS,SPEC EQMT,NONGAR	31	0.01	26	0.01	-5	-16.13
SEWING MACH OPS,SPEC EQMT,GAR	47	0.02	37	0.01	-10	-21.28
SEWING MACH OPS,REG EQMT,GARMENT	701	0.24	534	0.16	-167	-23.82
SHOEMAKING MACHINE OPS	9	0.00	14	0.00	5	55.56
TRIMMERS,MACHINE	9	0.00	14	0.00	5	55.56
FURNACE TNDRS,STOKRS,EX METAL	197	0.07	201	0.06	4	2.03
STATIONARY BOILER FIRERS	156	0.05	163	0.05	7	4.49
FURNACE &/OR BURNER TENDERS	29	0.01	23	0.01	-6	-20.69
FURNACE,KILN,DRIER OPS	12	0.00	15	0.00	3	25.00
MISC MACH OPS,MEAT & DAIRY	49	0.02	51	0.01	2	4.08
DAIRY PROCESSING EQMT OPERATORS	8	0.00	9	0.00	1	12.50
MEAT GRINDERS	5	0.00	5	0.00	0	0.00
COOKS &/OR COOKERS	30	0.01	31	0.01	1	3.33
MISC MACH OPS,ALL OTH FOOD	246	0.08	282	0.08	36	14.63
RETORT OPERATORS	15	0.01	15	0.00	0	0.00
WASHERS &/OR SEPARATORS,FOOD	52	0.02	55	0.02	3	5.77
BLANCHING MACHINE OPERATORS	6	0.00	7	0.00	1	16.67
REFINERY OPERATORS	62	0.02	65	0.02	3	4.84
FEED PELLET MILL OPERATORS	40	0.01	43	0.01	3	7.50
DOUGHNUT MAKRS/DOUGHNUT MACH OPS	43	0.01	69	0.02	26	60.47
DIVIDING MACH OPERATORS,ETC	5	0.00	5	0.00	0	0.00
OVEN OPERATORS	10	0.00	10	0.00	0	0.00
DRIER OPERATORS	11	0.00	11	0.00	0	0.00
MISC MACH OPS,TEXTILE MILL	24	0.01	20	0.01	-4	-16.67
CALENDER OPERATORS,CLOTH PRESSNG	19	0.01	15	0.00	-4	-21.05
MISC MACH OPS,PAPER,ALLIED	122	0.04	133	0.04	11	9.02
FOURDRINIER MACHINE TENDERS	7	0.00	7	0.00	0	0.00
BACK TENDERS	6	0.00	6	0.00	0	0.00
BEATERS	5	0.00	5	0.00	0	0.00
COATER OPERATORS,OFF-MACHINE	14	0.00	15	0.00	1	7.14
PAPER CUP MACHINE OPERATORS	11	0.00	12	0.00	1	9.09
PRINTER-SLOTTER OPERATORS	9	0.00	10	0.00	1	11.11
TAPING MACHINE OPERATORS	7	0.00	8	0.00	1	14.29
FLEXO-FOLDER-GLUER OPERATORS	6	0.00	7	0.00	1	16.67
CUTTING & CREASING PRESS OPS	12	0.00	13	0.00	1	8.33
CORRUGATOR OPERATORS	6	0.00	7	0.00	1	16.67
SCRAPPERS/STRIPPERS	24	0.01	27	0.01	3	12.50
MISC MACH OPS,CHEM,ALLIED	1798	0.60	1644	0.48	-154	-8.57
CALCINER OPERATORS	14	0.00	13	0.00	-1	-7.14
SPINNERS,SYNTHETIC FILAMENTS	497	0.17	345	0.10	-152	-30.58
DRAW MACHINE OPERATORS	60	0.02	53	0.02	-7	-11.67
EVAPORATOR OPERATORS,CHEMICAL	139	0.05	124	0.04	-15	-10.79
KETTLE OPERATORS,ADHESIVE	17	0.01	15	0.00	-2	-11.76
COMPRESSORS,TABLET	15	0.01	14	0.00	-1	-6.67
CHEMICAL OPERATOR HELPERS	220	0.07	199	0.06	-21	-9.55
CHEMICAL OPERATORS A	268	0.09	270	0.08	2	0.75
CHEMICAL OPERATORS B	353	0.12	368	0.11	15	4.25
DRIER OPERATORS,CHEM,PLAST,RUBBR	41	0.01	49	0.01	8	19.51
CHIEF OPERATORS	168	0.06	188	0.06	20	11.90
MISC MACH OPS,RUBBER,PLAST	405	0.14	568	0.17	163	40.25
EXTRUDER OPS,RUBBER OR PLASTICS	156	0.05	208	0.06	52	33.33
EXTRUDER OP HELPERS,RUB OR PLAS	35	0.01	54	0.02	19	54.29
BLOW MOLDING MACHINE OPERATORS	16	0.01	26	0.01	10	62.50
CALENDER OPS,RUBBER OR PLASTICS	52	0.02	61	0.02	9	17.31
FINISHERS,MACHINE	9	0.00	13	0.00	4	44.44
COMPR &/OR INJECT MOLD MA OPS,PL	131	0.04	196	0.06	65	49.62
MISC MACH OPS,STONE,CLAY,GLA	64	0.02	73	0.02	9	14.06
BLOCKMAKING MACHINE OPERATORS	7	0.00	9	0.00	2	28.57
CONCRETE STONE FABRICATORS	13	0.00	16	0.00	3	23.08
CONCRETE VAULT MAKERS	35	0.01	38	0.01	3	8.57

DELAWARE EMPLOYMENT PROJECTIONS BY OCCUPATION
AREA - STATEWIDE

TOTAL WAGE AND SALARY EMPLOYMENT BY OCCUPATION
INCLUDING SELF-EMPLOYED AND UNPAID FAMILY WORKERS

OCCUPATIONAL TITLE	1984 EMPLOYMENT		PROJ. 1990 EMPL.		CHANGE 1984-90	
	NUMBER	PCT.	NUMBER	PCT.	NUMBER	PCT.
MISC MACH OPS,PRIMARY METALS	56	0.02	67	0.02	11	19.64
COILERS,WINDERS,&/OR SPOOLERS	12	0.00	11	0.00	-1	-8.33
STRANDING MACHINE OPERATORS	29	0.01	30	0.01	1	3.45
INSULATING EXTRUDING MACH OPS	8	0.00	7	0.00	-1	-12.50
MISC MACH OPS,MFG,NEC	195	0.07	226	0.07	31	15.90
SCREEN/STENCIL PRINTERS/SETTERS	9	0.00	4	0.00	-5	-55.56
SCREEN MAKERS,PHOTOGRAPHIC PROC	5	0.00	6	0.00	1	20.00
FILTER/FILTER PRESS OPERATORS	49	0.02	44	0.01	-5	-10.20
GRINDER OPERATORS	54	0.02	62	0.02	8	14.81
LAMINATORS,PREFORMS	24	0.01	38	0.01	14	58.33
PRESS OPERATORS,PLASTICS	29	0.01	47	0.01	18	62.07
INSUL WRAPPING/BRAIDING MACH OPS	12	0.00	12	0.00	0	0.00
SOABAR OPERATORS	6	0.00	5	0.00	-1	-16.67
MISC MACH OPS,NONMFG	180	0.06	161	0.05	-19	-10.56
TIRE FABRICATORS,REPAIRERS	78	0.03	69	0.02	-9	-11.54
REFINERY OPERATORS,PETROLEUM	82	0.03	73	0.02	-9	-10.98
GRANULATOR MACHINE OPERATORS	16	0.01	14	0.00	-2	-12.50
OPERATIVES,NEC,DURABLE GOODS	122	0.04	162	0.05	40	32.79
CONCRETE PIPE MAKERS	6	0.00	7	0.00	1	16.67
FABRICATORS,PLASTICS	36	0.01	55	0.02	19	52.78
FINISHERS,HAND	38	0.01	58	0.02	20	52.63
PLATER HELPERS	18	0.01	17	0.00	-1	-5.56
WIRE DRAWERS	14	0.00	13	0.00	-1	-7.14
PIPE STRIPPERS	7	0.00	9	0.00	2	28.57
OPERATIVES,NEC,NONDUR GOODS	2970	1.00	3099	0.91	129	4.34
BAKER HELPERS	65	0.02	71	0.02	6	9.23
CHEESEMAKER HELPERS	9	0.00	10	0.00	1	11.11
CHICKEN CUTTERS	656	0.22	699	0.21	43	6.55
COOLER ROOM WORKERS,MEAT	13	0.00	14	0.00	1	7.69
POULTRY DRESSERS,EVISCERATORS	1567	0.53	1669	0.49	102	6.51
PRINTER-SLOTTER FEEDERS	11	0.00	12	0.00	1	9.09
SHELLFISH SHUCKERS	148	0.05	157	0.05	9	6.08
STICKERS	5	0.00	5	0.00	0	0.00
REFINERY OPERATOR HELPERS,PETROL	311	0.10	263	0.08	-48	-15.43
THREAD TRIMMERS	36	0.01	38	0.01	2	5.56
CASTERS,PLASTICS	20	0.01	31	0.01	11	55.00
PURIFICATION OPERATORS,ETC	27	0.01	25	0.01	-2	-7.41
MARKERS	5	0.00	4	0.00	-1	-20.00
PRESS ASSISTANTS & FEEDERS	48	0.02	50	0.01	2	4.17
MAILERS	47	0.02	49	0.01	2	4.26
OPERATIVE,NEC,NONMFG	59	0.02	75	0.02	16	27.12
BILLPOSTERS	8	0.00	8	0.00	0	0.00
EXTERMINATORS	30	0.01	39	0.01	9	30.00
TERMITE TREATERS	20	0.01	26	0.01	6	30.00
TRANSPORT EQUIP OPERATIVES	10035	3.37	11235	3.30	1200	11.96
MOTOR BOAT OPERATORS	10	0.00	9	0.00	-1	-10.00
BUS DRIVERS	1762	0.59	1924	0.57	162	9.19
BUS DRIVERS	321	0.11	357	0.10	36	11.21
BUS DRIVERS, SCHOOL	1441	0.48	1567	0.46	126	8.74
DELIVERY & ROUTE WORKERS	1998	0.67	2372	0.70	376	18.84
DELIVERY & ROUTE WORKERS	1982	0.67	2357	0.69	375	18.92
FURNITURE ASSEMBLERS & INSTALLRS	14	0.00	15	0.00	1	7.14
FORK LIFT,TOW MOTOR OPS	1007	0.34	1072	0.32	65	6.45
INDUSTRIAL TRUCK OPERATORS	1004	0.34	1069	0.31	65	6.47
PARKING LOT ATTENDANTS	139	0.05	162	0.05	23	16.55
BRAKERS,TRAIN	130	0.04	146	0.04	16	12.31
TOWER OPERATORS	25	0.01	26	0.01	1	4.00
TAXICAB DRIVERS,CHAUFFERS	487	0.16	563	0.17	76	15.61
AMBULANCE DRIVERS/AMB ATTENDANTS	46	0.02	50	0.01	4	8.70
TAXI DRIVERS	239	0.08	263	0.08	24	10.04
DRIVERS,ASSEMBLY LINE	63	0.02	69	0.02	6	9.52
CHAUFFEURS	139	0.05	181	0.05	42	30.22
TRUCK DRIVING OCCUPATIONS	4479	1.50	4961	1.46	482	10.76
TRUCK DRIVERS	4479	1.50	4961	1.46	482	10.76
ALL OTHER OPS & SEMISKILLED WKRS	5722	1.92	6248	1.84	526	9.19

DELAWARE EMPLOYMENT PROJECTIONS BY OCCUPATION
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INCLUDING SELF-EMPLOYED AND UNPAID FAMILY WORKERS

OCCUPATIONAL TITLE	1984 EMPLOYMENT		PROJ. 1990 EMPL.		CHANGE 1984-90	
	NUMBER	PCT.	NUMBER	PCT.	NUMBER	PCT.
SERVICE WORKERS**	47275	15.88	56883	16.72	9608	20.32
CLEANING SERVICE WORKERS	9571	3.22	11236	3.30	1665	17.40
JANITORS,PORTERS,& CLEANERS	9571	3.22	11236	3.30	1665	17.40
FOOD SERVICE WORKERS	21017	7.06	25383	7.46	4366	20.77
BAKERS,BREAD &/OR PASTRY	92	0.03	113	0.03	21	22.83
BARTENDERS	1119	0.38	1357	0.40	238	21.27
DINING RM ATTNS,BAR HELPERS,ETC	942	0.32	1144	0.34	202	21.44
COOKS,EX PRIVATE	3003	1.01	3484	1.02	481	16.02
COOKS,SHORT ORDER/SPEC FAST FD	1091	0.37	1230	0.36	139	12.74
COOKS,RESTAURANT	1060	0.36	1277	0.38	217	20.47
COOKS,INSTITUTIONAL	852	0.29	977	0.29	125	14.67
BUTCHERS &/OR MEAT CUTTERS	442	0.15	522	0.15	80	18.10
WAITERS & WAITRESSES	5432	1.82	6186	1.82	754	13.88
HOSTS/HOSTESSES,REST,LNGE,COF SH	459	0.15	552	0.16	93	20.26
WAITERS OR WAITRESSES	4973	1.67	5634	1.66	661	13.29
FOOD WORKERS,NEC,EX PRIVATE	9987	3.36	12577	3.70	2590	25.93
KITCHEN HELPERS	3210	1.08	3619	1.06	409	12.74
FD PREP & SERV WKRS,FAST FD REST	4553	1.53	6325	1.86	1772	38.92
PANTRY,SANDWICH,&/OR COFF MAKERS	443	0.15	531	0.16	88	19.86
ALL OTHER FOOD SERVICE WORKERS	1781	0.60	2102	0.62	321	18.02
HEALTH SERVICE WORKERS	4737	1.59	5925	1.74	1188	25.08
OCCUPATIONAL THERAPY AIDES	30	0.01	38	0.01	8	26.67
NURSING ASSISTANT OCCUPS	4707	1.58	5887	1.73	1180	25.07
NURSES AIDES/ORDERLIES	3997	1.34	4995	1.47	998	24.97
PSYCHIATRIC AIDES	449	0.15	576	0.17	127	28.29
ORTHOPEDIC CAST SPECIALISTS	10	0.00	13	0.00	3	30.00
MEDICAL ASSISTANTS	251	0.08	303	0.09	52	20.72
PERSONAL SERVICE WORKERS	5048	1.70	6521	1.92	1473	29.23
ATTNS,RECREATION & AMUSEMENT	316	0.11	401	0.12	85	26.90
RECREATION FACILITY ATTENDANTS	146	0.05	191	0.06	45	30.82
GAME OPS,RIDE OPS,CONCESS WKRS	22	0.01	27	0.01	5	22.73
PIN CHASERS	29	0.01	41	0.01	12	41.38
LIFEGUARDS	119	0.04	142	0.04	23	19.33
ATTNS,PERSONAL SERVICE,NEC	1044	0.35	1335	0.39	291	27.87
MORTUARY BEAUTICIANS	10	0.00	13	0.00	3	30.00
FUNERAL ATTENDANTS	27	0.01	33	0.01	6	22.22
INSTRUCTORS,REDUCING	158	0.05	189	0.06	33	21.15
HOUSEKEEPERS,HOTEL & MOTEL	546	0.18	752	0.22	206	37.73
CHECKROOM & LOCKER RM ATTNS	11	0.00	14	0.00	3	27.27
GUIDES,SIGHTSEEING OR ESTABLHMT	293	0.10	333	0.10	40	13.65
BAGGAGE PORTERS & BELLHOPS	33	0.01	32	0.01	-1	-3.03
BELLHOPS,BAG PORTERS,DRKPRS,ETC	28	0.01	27	0.01	-1	-3.57
BAGGAGE HANDLERS	5	0.00	5	0.00	0	0.00
BARBERS	280	0.09	378	0.11	98	35.00
CHILD CARE WORKERS,EX PRIVATE	1163	0.39	1661	0.49	498	42.82
CHILD CARE ATTENDANTS	255	0.09	384	0.11	129	50.59
CHILD CARE WORKERS	908	0.31	1277	0.38	369	40.64
HAIRDRESSERS,COSMETOLOGISTS	1712	0.58	2157	0.63	445	25.99
COSMETOLOGISTS/WM'S HAIRSTYLISTS	1535	0.52	1929	0.57	394	25.67
MANICURISTS	25	0.01	33	0.01	8	32.00
SCALP TREATMENT OPERATORS	15	0.01	23	0.01	8	53.33
SHAMPOOERS	137	0.05	172	0.05	35	25.55
SCHOOL MONITORS	233	0.08	257	0.08	24	10.30
USHERS,LOBBY ATTNS,TICKET TAKERS	63	0.02	58	0.02	-5	-7.94
SOCIAL SERVICE AIDES	202	0.07	242	0.07	40	19.80
PROTECTIVE SERVICE WORKERS	4917	1.65	5529	1.62	612	12.45
CROSSING GUARDS,BRIDGETENDRS	215	0.07	211	0.06	-4	-1.86
SCHOOL CROSSING GUARDS	212	0.07	208	0.06	-4	-1.89
FIREFIGHTING OCCUPATIONS	250	0.08	243	0.07	-7	-2.80
FIRE FIGHTERS	197	0.07	191	0.06	-6	-3.05
FIRE OFFICERS	49	0.02	48	0.01	-1	-2.04
GUARDS	2895	0.97	3518	1.03	623	21.52
GUARDS & DOORKEEPERS	2229	0.75	2801	0.82	572	25.66
CHECKERS,FITTING ROOM	78	0.03	91	0.03	13	16.67
FISH & GAME WARDENS	38	0.01	37	0.01	-1	-2.63
CORRECTION OFFICERS &/OR JAILERS	550	0.18	589	0.17	39	7.09

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OCCUPATIONAL TITLE	1984 EMPLOYMENT		PROJ. 1990 EMPL.		CHANGE 1984-90	
	NUMBER	PCT.	NUMBER	PCT.	NUMBER	PCT.
U.S. MARSHALLS	8	0.00	7	0.00	-1	-12.50
POLICE & DETECTIVES	1471	0.49	1481	0.44	10	0.68
DETECTIVES, PRIVATE	8	0.00	10	0.00	2	25.00
STORE DETECTIVES	99	0.03	141	0.04	42	42.42
POLICE OFFICERS	296	0.10	287	0.08	-9	-3.04
POLICE DETECTIVES	78	0.03	75	0.02	-3	-3.85
POLICE PATROLMEN/WOMEN	931	0.31	905	0.27	-26	-2.79
PARKING ENFORCEMENT OFFICERS	58	0.02	62	0.02	4	6.90
SHERIFFS & BAILIFFS	78	0.03	69	0.02	-9	-11.54
SHERIFFS	23	0.01	16	0.00	-7	-30.43
BAILIFFS	55	0.02	53	0.02	-2	-3.64
OTHER SERVICE WORKERS	1987	0.67	2289	0.67	302	15.20
SUPERVISORS,NONWORKING,SERVICE	571	0.19	681	0.20	110	19.28
ALL OTHER SERVICE WORKERS	1416	0.48	1608	0.47	192	13.56
LABORERS,EX FARM**	18026	5.38	17295	5.08	1269	7.92
ANIMAL CARETAKERS	283	0.10	329	0.10	46	16.25
CONST LABRS,EX CARPEN HLPRS	535	0.18	530	0.16	-5	-0.93
AIR HAMMER OPERATORS	15	0.01	15	0.00	0	0.00
FORM SETTERS,METAL ROAD FORM	11	0.00	11	0.00	0	0.00
FENCE ERECTORS	29	0.01	32	0.01	3	10.34
PIPELAYERS	115	0.04	119	0.03	4	3.48
REINFORCING-IRON WORKERS	108	0.04	110	0.03	2	1.85
SEWER TAPPERS	5	0.00	5	0.00	0	0.00
HIGHWAY MAINTENANCE WORKERS	171	0.06	152	0.04	-19	-11.11
ASPHALT RAKERS	78	0.03	83	0.02	5	6.41
FREIGHT,MATERIAL HANDLERS	247	0.08	256	0.08	9	3.64
OFF-BEARERS	6	0.00	7	0.00	1	16.67
LOADERS,TANK CARS &/OR TRUCKS	65	0.02	65	0.02	0	0.00
CONVEYOR OPERATORS OR TENDERS	127	0.04	140	0.04	13	10.24
WORK DISTRIBUTORS	47	0.02	41	0.01	-6	-12.77
REFUSE COLLECTORS	340	0.11	334	0.10	-6	-1.76
GARDENERS & GROUNDSKEEPERS	1606	0.54	1948	0.57	342	21.30
GARDENERS & GROUNDSKEEPERS	1599	0.54	1941	0.57	342	21.39
TREE TRIMMERS	7	0.00	7	0.00	0	0.00
TIMBERCUTTING,LOGGING WKRS	14	0.00	17	0.00	3	21.43
FALLERS &/OR BUCKERS	14	0.00	17	0.00	3	21.43
STOCK HANDLERS	1819	0.54	1955	0.57	338	20.75
ORDER FILLERS	412	0.14	475	0.14	63	15.29
STOCK CLERKS,SALES FLOOR	1207	0.41	1480	0.43	273	22.62
VEHICLE WASHERS,EQUIP CLNRS	499	0.17	512	0.15	13	2.61
CLEANERS,VEHICLE	499	0.17	512	0.15	13	2.61
OTHER LABORERS	10883	3.66	11414	3.35	531	4.88
FURNACE OP HELPERS/HEATER HELPRS	5	0.00	6	0.00	1	20.00
RIGGERS	53	0.02	52	0.02	-1	-1.89
HELPERS,TRADES	2371	0.80	2476	0.73	105	4.43
CANNERY WORKERS	1053	0.35	1115	0.33	62	5.89
LINE SERVICE ATTENDANTS	16	0.01	17	0.00	1	6.25
FOREST CONSERVATION WORKERS	46	0.02	42	0.01	-4	-8.70
SEPTIC TANK SERVICERS,ETC	36	0.01	37	0.01	1	2.78
ALL OTHER LABORERS & UNSKLD WKRS	7300	2.45	7666	2.25	366	5.01
FARMERS & FARM WORKERS**	1098	0.37	1293	0.38	197	17.97
FARMERS & FARM MANAGERS	35	0.01	41	0.01	6	17.14
FARM MANAGERS	35	0.01	41	0.01	6	17.14
FARM LABORERS, FARM SUPERVISORS	1061	0.36	1252	0.37	191	18.00
FARM SUPERVISORS	28	0.01	32	0.01	4	14.29
FARM LABORERS	1033	0.35	1220	0.36	187	18.10

APPENDIX C: AVERAGE ANNUAL JOB OPENINGS

DELAWARE EMPLOYMENT PROJECTIONS BY OCCUPATION

ESTIMATED JOB OPENINGS
INCLUDING SELF-EMPLOYED AND UNPAID FAMILY WORKERS

AREA - STATEWIDE

OCCUPATIONAL TITLE	ANNUAL AVERAGE JOB OPENINGS 1984-1990		
	DUE TO GROWTH	DUE TO LABOR FORCE SEPARATIONS	ANNUAL AVERAGE TOTAL
****** TOTAL ALL OCCUPATIONS ******	7126	8545	15671
PROFESS,TECHN,& KINDRED OC***	1448	1534	2982
ENGINEERS	68	107	175
CHEMICAL ENGINEERS	55	23	78
CIVIL ENGINEERS	2	17	19
ELECTRICAL ENGINEERS	14	19	33
INDUSTRIAL ENGINEERS	1	4	5
MECHANICAL ENGINEERS	0	28	28
OTHER ENGINEERS	-4	16	12
ALL OTHER ENGINEERS	-4	16	12
LIFE & PHYSICAL SCIENTISTS	33	47	80
AGRICULTURAL SCIENTISTS	0	2	2
LIFE SCIENTISTS	-1	15	14
BIOLOGICAL SCIENTISTS	0	13	13
MEDICAL SCIENTISTS	-1	2	1
CHEMISTS	37	30	67
PHYSICISTS	1	0	1
LIFE&PHYSICAL SCIENTISTS,NEC	-4	0	-4
MATHEMATICAL SPECIALISTS	4	3	7
ACTUARIES	1	1	2
MATHEMATICAL SCIENTISTS	2	1	3
ALL OTHER MATH SCIENTISTS	2	1	3
STATISTICIANS	1	1	2
ENGINEERING,SCIENCE TECHNS	41	47	88
DRAFTERS	8	0	8
DRAFTERS	8	0	8
ELECTRICAL,ELECTRONIC TECHNS	22	6	28
ELECTRICAL & ELECTRONIC TECHNS	23	6	29
BROADCAST TECHNICIANS	-1	0	-1
MECHAN ENGINEERING TECHNICIANS	5	2	7
SURVEYORS	1	3	4
ENGIN & SCI TECHNS,NEC	5	36	41
CIVIL ENGINEERING TECHNICIANS	2	4	6
ALL OTHR ENGINEERING TECHNICIANS	25	9	34
ALL OTHER SCIENCE TECHNICIANS	-22	23	1
MEDICAL WORKERS,EX TECHNS	284	248	532
CHIROPRACTORS	-1	17	16
DENTISTS	7	8	15
DIETITIANS &/OR NUTRITIONISTS	3	5	8
NURSES,PROFESSIONAL	192	164	356

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	DUE TO GROWTH	DUE TO LABOR FORCE SEPARATIONS	ANNUAL AVERAGE TOTAL
OPTOMETRISTS	0	1	1
PHARMACISTS	12	18	30
PHYSICIANS &/OR SURGEONS	43	20	63
PODIATRISTS	1	1	2
THERAPISTS	20	11	31
OCCUPATIONAL THERAPISTS	4	1	5
MANUAL ARTS,MUSIC,REC THERAPISTS	2	1	3
SPEECH & HEARING CLINICIANS,ETC	2	2	4
PHYSICAL THERAPISTS	5	3	8
INHALATION THERAPISTS	4	2	6
ALL OTHER THERAPISTS	3	2	5
VETERINARIANS	7	3	10
OTHER HEALTH TECHNOLS & TECHNS	147	157	304
HEALTH TECHNOLS & TECHNS	15	22	37
MEDICAL LAB TECHNOLOGISTS	2	6	8
BIOCHEMISTRY TECHNOLOGISTS	2	2	4
MICROBIOLOGY TECHNOLOGISTS	2	1	3
HISTOLOGIC TECHNOLOGISTS	1	1	2
MEDICAL LAB ASSISTANTS	2	7	9
BLOOD BANK TECH SPECILAISTS	6	5	11
DENTAL HYGIENISTS & ASSTS	26	26	52
DENTAL ASSISTANTS	15	17	32
DENTAL HYGIENISTS	11	9	20
MEDICAL RECORD LIBRARIANS	1	2	3
RADIOLOGIC TECHNOLS,TECHNS	11	9	20
X-RAY TECHNICIANS	9	7	16
RADIOLOGIC TECHS & NUC MED TECHS	2	2	4
OTHER HEALTH TECHNOLS,TECHNS	91	96	187
SURGICAL TECHNICIANS	3	2	5
EKG TECHNICIANS	2	1	3
EEG TECHNICIANS	1	0	1
EMERGENCY MEDICAL TECHNICIANS	0	2	2
PHARMACY HELPERS	5	6	11
LICENSED PRACTICAL NURSES	74	80	154
PHYSICAL THERAPY TECHNICIANS	3	2	5
ALL OTHER MED & DENT TECHNICIANS	3	3	6
PUBLIC RELATIONS SPECIALISTS	3	2	5
TECHNICIANS,EX HEALTH OR S&E	-2	22	20
AIRPLANE PILOTS	0	1	1
EMBALMERS	1	4	5
OTHER TECHNS,EX HEALTH OR S&E	-3	17	14
ALL OTHER TECHNICIANS	-5	15	10
TECHNICAL ASSISTANTS,LIBRARY	2	2	4

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OCCUPATIONAL TITLE	ANNUAL AVERAGE JOB OPENINGS 1984-1990		
	DUE TO GROWTH	DUE TO LABOR FORCE SEPARATIONS	ANNUAL AVERAGE TOTAL
COMPUTER SPECIALISTS	178	24	202
COMPUTER PROGRAMMERS	43	11	54
SYSTEMS ANALYSTS,EDP	135	13	148
SOCIAL SCIENTISTS	15	5	20
ECONOMISTS	7	1	8
FINANCIAL ANALYSTS	6	1	7
ECONOMISTS	1	0	1
PSYCHOLOGISTS	8	2	10
URBAN AND REGIONAL PLANNERS	0	2	2
TEACHERS	277	358	635
TEACHERS,ADULT EDUCATION	30	13	43
COLLEGE & UNIVERSITY TEACHERS	-26	51	25
TEACHERS,VOCATIONAL ED OR TRAIN	6	3	9
TEACHERS,COLLEGE	-14	19	5
GRADUATE ASSISTANTS	-8	6	-2
EXTENSION SERVICE SPECIALISTS	1	1	2
PROFESSORS	-5	4	-1
ASSOC. PROFESSORS	-6	6	0
ASST. PROFESSORS	-6	5	-1
LECTURERS	6	7	13
TEACHERS,ELEMENTARY	201	168	369
PRESCH. &/OR ELEM. SCH. TEACHERS	201	168	369
TEACHERS,SECONDARY	68	123	191
TEACHERS,NEC	4	3	7
DANCE INSTRUCTORS	2	1	3
ALL OTHER TEACHERS	2	2	4
WRITERS,ARTISTS,ENTERTAINERS	65	39	104
ACTORS OR ACTRESSES	1	0	1
ATHLETES & KINDRED WORKERS	20	4	24
ATHLETES	1	0	1
SPORTS INSTRUCTORS	11	3	14
UMPIRES	8	1	9
DESIGNING OCCUPATIONS	16	10	26
DESIGNERS	16	10	26
EDITORS & REPORTERS	5	8	13
WRITERS &/OR EDITORS	3	5	8
REPORTERS & CORRESPONDENTS	2	3	5
MUSICIANS	5	4	9
MUSICIANS,INSTRUMENTAL	5	4	9
PAINTERS & SCULPTORS	9	8	17
COMMERCIAL ARTISTS	9	8	17
PHOTOGRAPHIC OCCUPATIONS	3	1	4

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	DUE TO GROWTH	DUE TO LABOR FORCE SEPARATIONS	ANNUAL AVERAGE TOTAL
PHOTOGRAPHERS	3	1	4
PUBLIC RELATIONS SPECIALISTS	5	4	9
RADIO,TV ANNOUNCERS	1	0	1
BROADCAST NEWS ANALYSTS	1	0	1
OTH PROFESSIONAL & TECHN WKRS	338	477	815
ACCOUNTING OCCUPATIONS	67	92	159
ACCOUNTANTS & AUDITORS	66	85	151
TAX EXAMINERS,COLLECTRS,REV AGTS	-2	4	2
TAX PREPARERS	3	3	6
ARCHITECTS	7	4	11
BUYING OCCUPATIONS	14	33	47
PURCHASING AGENTS &/OR BUYERS	2	14	16
MEDIA BUYERS	1	1	2
BUYERS,RETAIL &/OR WHOLSL TRADE	11	17	28
RIGHT-OF-WAY AGENTS	0	1	1
CLERGY	29	40	69
DIRECTORS,REL ACT &/OR REL ED	5	6	11
COUNTY AGRIC. SPECIALISTS	0	1	1
FORESTERS & CONSERV SCIENTISTS	0	3	3
JUDICIAL OCCUPATIONS	-1	5	4
JUDGES	0	2	2
MAGISTRATES	-1	3	2
LAWYERS & KINDRED WORKERS	50	72	122
LAW CLERKS	3	4	7
LAWYERS	28	61	89
PARALEGAL PERSONNEL	19	7	26
LIBRARIANS & RELATED WORKERS	0	11	11
LIBRARIANS	0	10	10
AUDIO VISUAL SPECIALISTS	0	1	1
PERSONNEL & EMPLOYMENT WKRS	15	25	40
PERSONNEL,LABOR REL SPECIALISTS	5	18	23
EMPLOYMENT INTERVIEWERS	10	7	17
RECREATION WORKERS	12	23	35
GROUP RECREATION WORKERS	12	23	35
SOCIAL WORKERS	25	42	67
CASEWORKERS	20	37	57
COMMUNITY ORGANIZATION WORKERS	5	5	10
VOCATIONAL & EDUC COUNSELORS	18	30	48
MISC PROFESSIONAL WORKERS	97	90	187
CURRICULUM SPECIALISTS	1	0	1
SAFETY INSPECTORS	1	0	1
COST ESTIMATORS	1	9	10
CREDIT ANALYSTS,CHIEF	3	1	4
CREDIT ANALYSTS	15	6	21
UNDERWRITERS	9	7	16

DELAWARE EMPLOYMENT PROJECTIONS BY OCCUPATION

ESTIMATED JOB OPENINGS
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AREA - STATEWIDE

OCCUPATIONAL TITLE	ANNUAL AVERAGE JOB OPENINGS 1984-1990		
	DUE TO GROWTH	DUE TO LABOR FORCE SEPARATIONS	ANNUAL AVERAGE TOTAL
INVESTIGATORS,INSURANCE	2	1	3
APPRAISERS,REAL ESTATE	1	1	2
ASSESSORS	0	1	1
CLAIMS TAKERS,UNEMP BENEFITS	0	1	1
BROKER'S FL REPS,SEC TRADRS,ETC	2	3	5
SPECIAL AGENTS,INSURANCE	13	6	19
TRAVEL AGTS,TR ACCOM APPRAISERS	6	7	13
CLAIM EXAMINERS,PRPTY/CSLTY INS	5	2	7
ALL OTHER PROFESSIONAL WORKERS	38	45	83
MANAGERS & OFFICIALS*******	587	454	1041
SALES MANAGERS	25	15	40
MANAGERS,MERCHANDISE	25	15	40
ADMINISTRATORS,PUB INSPECTORS	8	56	64
CONSTRUCTION INSPECTORS	0	2	2
PUBLIC ADM INSPECTORS,EX CONST	-4	15	11
CHIEF EXECUTIVES,LEGIS.	-2	0	-2
POSTMASTERS &/OR MAIL SUPERINTS	-1	4	3
SCHOOL ADMINS,ELEM & SECONDARY	15	35	50
PRINCIPALS	4	16	20
ASST. PRINCIPALS	9	11	20
SUPERINTENDENTS	2	8	10
OTHER MANAGERS,OFFICIALS,PROPS	554	383	937
OFFICERS,PILOTS,PURSERS,SHIP	-1	1	0
CAPTAINS,WATER VESSEL	-1	1	0
CONDUCTORS,TRAIN	3	3	6
MANAGERS,REST'RANT,COFFEE SH,ETC	17	56	73
OTHER MANAGERS, ADMINISTRATORS	535	323	858
MANAGERS,STORE	91	153	244
MANAGERS,AUTO SERVICE DEPT	0	7	7
MANAGERS,AUTO PARTS DEPT	-1	5	4
WHOLESALERS	12	17	29
ALL OTHER MANAGERS	433	141	574
SALES WORKERS*******	615	664	1279
INSURANCE AGENTS,BROKERS,ETC	68	30	98
SALES AGENTS,SALES REPS,INSURNCE	68	30	98
REAL ESTATE AGENTS,BROKERS	-29	56	27
REAL ESTATE BROKERS	-2	2	0
SALES AGENTS,SALES REPS,REAL EST	-27	54	27
STOCK & BOND SALES AGENTS	17	21	38
SALES AGENTS,SALES REPS,FIN SERV	7	9	16
SALES AGENTS,SALES REPS,SECURITY	10	12	22

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AREA - STATEWIDE

OCCUPATIONAL TITLE	ANNUAL AVERAGE JOB OPENINGS 1984-1990		
	DUE TO GROWTH	DUE TO LABOR FORCE SEPARATIONS	ANNUAL AVERAGE TOTAL
MISC SALES WORKERS	559	557	1116
SALES CLERKS	430	546	976
VENDORS	1	1	2
CONTRIBUTION SOLICITORS	1	1	2
CRATING & MOVING ESTIMATORS	0	1	1
SALES CLERK SUPERVISORS	1	1	2
ALL OTHER SALES WORKERS	126	7	133
CLERICAL WORKERS*******	1878	2032	3910
STENOS,SECRETARIES,& TYPISTS	511	561	1072
SECRETARIES	442	387	829
STENOGRAPHERS	-18	39	21
TYPISTS	87	135	222
OFFICE MACHINE OPERATORS	65	85	150
OFFICE MACHINE OPERATORS	37	20	57
BOOKKEEPING/BILLING MACH OPS	12	12	24
PROOF MACHINE OPERATORS	21	7	28
TRANSIT CLERKS	4	1	5
COMPUTER,PERIPHERAL EQUIP OPS	64	12	76
COMPUTER OPERATORS	56	10	66
PERIPHERAL EDP EQPT OPERATORS	8	2	10
DUPLICATING MACHINE OPERATORS	3	1	4
KEYPUNCH OPERATORS	-48	35	-13
ALL OTHER OFFICE MACHINE OPS	9	17	26
OTHER CLERICAL WORKERS	1302	1386	2688
BANK TELLERS	83	45	128
NEW ACCOUNTS TELLERS	17	9	26
TELLERS	66	36	102
BOOKKEEPERS	111	211	322
ACCOUNTING CLERKS	62	120	182
BOOKKEEPERS,HAND	49	91	140
CASHIERS	203	163	366
CLERICAL SUPERVISORS	79	61	140
COLLECTORS	65	19	84
COUNTER CLERKS,EX FOOD	16	35	51
CAR RENTAL CLERKS	1	1	2
DESK CLERKS	3	8	11
ORDER CLERKS	8	22	30
CIRCULATION CLERKS	0	1	1
TELEPHONE AD TAKERS,NEWSPAPER	0	1	1
DESK CLERKS,BOWLING FLOOR	4	2	6
DISPATCHERS,STARTERS,VEHICLE	3	12	15
DISPATCHERS,POLICE,FIRE,AMBULNCE	0	4	4

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	DUE TO GROWTH	DUE TO LABOR FORCE SEPARATIONS	ANNUAL AVERAGE TOTAL
DISPATCHERS,VEHICLE,SERV OR WK	3	8	11
SURVEY WORKERS	5	6	11
ESTIMATORS,INVESTIGATORS,NEC	85	38	123
CREDIT AUTHORIZERS	1	2	3
ADJUSTMENT CLERKS	61	25	86
CHECKING CLERKS	1	0	1
CLAIMS CLERKS	21	11	32
CREDIT REPORTERS	1	0	1
PRODUCTION CLERKS	6	9	15
FILE CLERKS & RELATED WORKERS	36	41	77
FILE CLERKS	28	31	59
PERSONNEL CLERKS	7	9	16
ADMISSIONS EVALUATORS	1	1	2
CLAIM WORKERS,INSURANCE	36	16	52
CLAIM EXAMINERS,INSURANCE	15	10	25
CLAIM ADJUSTERS	21	6	27
LIBRARY ASSISTANTS	3	8	11
POSTAL MAIL CARRIERS	8	18	26
MAIL HANDLERS,EX POSTAL SERV	17	8	25
MAIL CLERKS	17	8	25
MESSENGERS & OFFICER HELPERS	8	10	18
MESSENGERS,BANK	2	1	3
MESSENGERS	6	9	15
METER READERS	0	2	2
PAYROLL/TIMEKEEPING CLERKS	13	25	38
POSTAL SERVICE CLERKS	-5	6	1
PROOFREADERS	0	2	2
PROOFREADERS,COMPOSED COPY	0	2	2
RECEPTIONISTS & RELATED WKRS	56	66	122
RECEPTIONISTS	39	47	86
SWITCHBD OPS/RECEPTIONISTS	16	18	34
TRAVEL COUNSELORS,AUTO CLUB	1	1	2
SHIPPING,RECEIVING OCCUPS	41	45	86
SHIPPING & RECEIVING CLERKS	15	18	33
SHIPPING PACKERS	26	27	53
STATISTICAL CLERKS	22	22	44
ACTUARIAL CLERKS	1	1	2
BROKERAGE CLERKS	1	1	2
TRADE RECORDERS	1	0	1
MARGIN CLERKS	0	1	1
RATERS	9	6	15
STATISTICAL CLERKS	5	7	12
WORKSHEET CLERKS	1	1	2
COURT CLERKS	0	2	2
INSURANCE CHECKERS	4	3	7
STOCK CLERKS,STORE KEEPERS	42	61	103

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	DUE TO GROWTH	DUE TO LABOR FORCE SEPARATIONS	ANNUAL AVERAGE TOTAL
PROCUREMENT CLERKS	2	3	5
STOCK CLERKS,STOCKRM,WAREHS,ETC	40	58	98
TEACHERS AIDES/EDUC ASSISTANTS	30	28	58
TELEPHONE OPERATORS	6	28	34
SWITCHBOARD OPERATORS	8	18	26
CENTRAL OFFICE OPERATORS	-2	8	6
DIRECTORY ASSISTANCE OPERATORS	0	2	2
TICKET,STATION,EXPRESS AGENTS	-1	1	0
TICKET AGENTS	-1	1	0
ALL OTHER CLERICAL WORKERS	334	400	734
LOAN CLOSERS	3	2	5
CANCELLATION CLERKS	1	0	1
SERVICE REPRESENTATIVES	1	7	8
MEDIA CLERKS/ESTIMATORS/BILLERS	1	0	1
GENERAL CLERKS,OFFICE	160	251	411
IN-FILE OPERATORS	1	0	1
SECURITIES CASHIERS,EXCHANGE	1	0	1
POLICY CHANGE CLERKS	4	2	6
REAL ESTATE CLERKS	0	2	2
STATEMENT CLERKS	15	5	20
SERVICE CLERKS	3	6	9
TITLE SEARCHERS	1	1	2
PROTECTIVE SIGNAL OPERATORS	1	1	2
RATE CLERKS,FREIGHT	0	1	1
TOWN CLERKS	0	1	1
CREDIT CLERKS,BANK&/ORINSURANCE	54	19	73
MORTGAGE CLOSING CLERKS	1	1	2
INSURANCE CLERKS	1	0	1
INSURANCE CLERKS,MEDICAL	7	6	13
ALL OTHER OFFICE CLERICAL WKRS	76	75	151
ALL OTHER PLANT CLERICAL WKRS	3	20	23
CRAFTS & KINDRED WORKERS*****	431	928	1359
CONTRUCTION CRAFTS WORKERS	104	312	416
CARPENTERS	17	101	118
CARPENTERS	17	101	118
BRICKMASONS & STONEMASONS	15	10	25
BRICKLAYERS	15	9	24
STONE MASONS	0	1	1
LOGGING TRACTOR OPERATORS	-1	0	-1
CEMENT MASONS	4	9	13
CEMENT MASONS	4	9	13
ELECTRICIANS	24	39	63
ELECTRICIANS	24	39	63
EXCAVATING,GRADING MACH OPS	7	21	28

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	DUE TO GROWTH	DUE TO LABOR FORCE SEPARATIONS	ANNUAL AVERAGE TOTAL
CONCRETE MIXER OPERATORS	1	0	1
HEAVY EQUIPMENT OPERATORS	5	19	24
BATCH PLANT OPERATORS	1	1	2
BALLAST CLEAN MACH OPERATORS,ETC	0	1	1
FLOOR SANDING MACHINE OPERATORS	-4	2	-2
PAINTERS,MAINTENANCE	20	54	74
PAPERHANGERS	1	7	8
PLASTERERS & RELATED OCCUPS	-3	2	-1
PLASTERERS	-3	2	-1
PLUMBERS & PIPEFITTERS	15	53	68
PLUMBERS &/OR PIPEFITTERS	15	53	68
ROOFERS	4	6	10
STRUCTURAL STEEL WORKERS	3	7	10
TILE INSTALLING OCCUPS	2	1	3
TILE SETTERS	1	0	1
CEILING TILE INSTALLRS,FLR LAYRS	1	1	2
BLUE COLLAR WORKER SUPVSRS	30	98	128
SUPERVISORS,NONWORKING	30	98	128
METAL WKG CRAFTS WKRS,EX MECH	13	54	67
BOILERMAKERS	2	6	8
JOB & DIE SETTERS,METAL	3	4	7
MACHINE TOOL SETTERS,METALWRKING	1	2	3
SHEAR &/OR SLITTER SETTERS	0	1	1
SETTERS,PLASTIC MOLDING MACHINE	2	1	3
MACHINING OCCUPATIONS	6	20	26
LAYOUT MARKERS,METAL	0	1	1
MACHINISTS	6	19	25
MILLWRIGHTS	0	10	10
MOLDERS,METAL	-1	0	-1
MOLDERS,MACHINE(METAL)	-1	0	-1
SHEET METAL WORKERS	3	12	15
TOOLMAKERS & DIEMAKERS	0	2	2
TOOL & DIE MAKERS	0	2	2
MECHS,REPAIRERS,INSTALLERS	120	161	281
REFRIG MECHANICS,A/C MECHANICS	8	8	16
AIRCRAFT MECHANICS	-2	5	3
AUTO BODY REPAIRERS	-3	7	4
AUTOMOTIVE MECHANICS	29	59	88
AUTOMOTIVE MECHANICS	29	59	88
DATA PROCESSING MACH MECHANICS	15	1	16
FARM EQUIPMENT MECHANICS	2	2	4
HEAVY EQUIP MECHS,INC DIESEL	30	37	67
ENGINEERING EQUIPMT MECHANICS	1	3	4

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	DUE TO GROWTH	DUE TO LABOR FORCE SEPARATIONS	ANNUAL AVERAGE TOTAL
HYDROELECTRIC MACHINE MECHS,ETC	0	1	1
MARINE MECHANICS/REPAIRERS	0	1	1
MAINTENANCE MECHANICS	29	31	60
TREATMENT PLANT MECHANICS	0	1	1
HOUSEHOLD APPL MECHS & INST	6	8	14
GAS & ELEC APPLIANCE REPAIRERS	5	7	12
HOUSEHOLD APPLIANCE INSTALLERS	1	1	2
OFF MACH SERVICERS/CASH REG SERV	11	1	12
RADIO & TV SERVICERS & REPAIRERS	1	0	1
RAILROAD CAR SHOP REPAIRERS	0	1	1
CAR REPAIRERS	0	1	1
OTH MECHANICS,REPAIRERS,INST	23	32	55
BICYCLE REPAIRERS	2	1	3
ELECTRIC MOTOR REPAIRERS	1	1	2
GASOLINE ENGINE,MOWER REPAIRERS	1	1	2
COIN MACHINE SERVICERS,REPAIRERS	5	3	8
PROTECTIVE SIGNAL INST/REPAIRERS	4	1	5
INSTRUMENT REPAIRERS	-3	6	3
DIESEL MECHANICS	4	6	10
PINSETTER MECHANICS,AUTOMATIC	3	1	4
ALL OTHER MECHANICS & REPAIRERS	6	12	18
PRINTING TRADE CRAFTS WKRS	16	21	37
BOOKBINDING OCCUPATIONS	-1	6	5
BOOKBINDERS,MACHINE	1	2	3
BINDERY WORKERS,ASSEMBLY	-1	3	2
ALL OTHER BINDERY WORKERS	-1	1	0
COMPOSITORS &/OR TYPESETTERS	2	1	3
ENGRAVERS,EXC PHOTOENGRAVERS	0	1	1
ETCHERS &/OR ENGRAVERS	0	1	1
PHOTOENGRAVERS,LITHOGRAPHERS	3	2	5
STRIPPERS PRINTING	1	1	2
CAMERA OPERATORS,PRINTING	2	1	3
PRESS & PLATE PRINTERS	12	11	23
PRESS OPERATORS,PLATE PRINTERS	2	2	4
OFFSET LITHOGRAPHIC PRESS OPS	5	5	10
PLATEMAKERS	5	1	6
LETTER PRESS OPERATORS	0	2	2
LETTERSET PRESS OPERATORS	0	1	1
TRANS,PUB UTIL CRAFTS WKRS	7	15	22
ELEC POWER LINE INST,REPAIRS	1	5	6
CABLE SPLICERS	1	2	3
LINE INSTALLERS,REPAIRERS	0	2	2
TROUBLE SHOOTERS,POWER LINE	0	1	1
LOCOMOTIVE ENGINEER OCCUPS	8	7	15

DELAWARE EMPLOYMENT PROJECTIONS BY OCCUPATION

ESTIMATED JOB OPENINGS
INCLUDING SELF-EMPLOYED AND UNPAID FAMILY WORKERS

AREA - STATEWIDE

OCCUPATIONAL TITLE	ANNUAL AVERAGE JOB OPENINGS 1984-1990		
	DUE TO GROWTH	DUE TO LABOR FORCE SEPARATIONS	ANNUAL AVERAGE TOTAL
YARD ENGINEERS	3	2	5
HOSTLERS	3	3	6
LOCOMOTIVE ENGINEERS	2	2	4
FIRERS,LOCOMOTIVE	-2	0	-2
TELEPHONE INSTALLERS,REPAIRS	0	3	3
INSTALLERS,REPAIRERS,SEC MAINTS	3	1	4
STATION INSTALLERS	2	1	3
CENTRAL OFFICE REPAIRERS	-4	1	-3
TROUBLE LOCATORS,TEST DESK	-1	0	-1
OTHER CRAFTS,KINDRED WORKERS	141	267	408
BAKING OCCUPATIONS	2	2	4
BAKERS	2	2	4
CABINETMAKERS	4	11	15
CARPET CUTTERS,CARPET LAYERS	2	3	5
CRANE,DERRICK,HOIST OCCUPS	3	6	9
CRANE,DERRICK,& HOIST OPERATORS	3	6	9
MERCHAN DISPLAYERS & WIND TRMRS	2	3	5
DENTAL LAB TECHNICIANS	3	4	7
FURNITURE FINISHERS	0	2	2
GLAZING OCCUPATIONS	3	1	4
GLASS INSTALLERS	1	0	1
GLAZIERS	2	1	3
OTHER INSPECTION OCCUPS	35	53	88
INSPECTORS	36	43	79
TESTERS	-1	10	9
JEWELERS & WATCHMAKERS	2	8	10
JEWELERS &/OR SILVERSMITHS	2	6	8
WATCHMAKERS	0	2	2
MILLING OCCS,GRAIN,FLOUR,FEED	0	1	1
MILLERS	0	1	1
MOTION PICTURE PROJECTIONISTS	-1	1	0
OPTICIANS,LENS GRINDRS,POLISH	1	0	1
OPTICIANS,DISP &/OR OPTIC MECHS	1	0	1
SHOE REPAIRING OCCUPATIONS	3	5	8
SHOE REPAIRERS	3	5	8
STATIONARY ENGINEERING OCCUPS	-3	14	11
CONTROL ROOM OPERATORS,STEAM	-2	1	-1
DIESEL PLANT OPERATORS	0	2	2
AUXILIARY EQUIPMENT OPERATORS	-1	0	-1
SEWAGE PLANT OPERATORS	-2	1	-1
STATIONARY ENGINEERS	2	7	9
WASTE TREATMENT PLANT OPS,CHEM	0	1	1
WATER TREATMENT PLANT OPERATORS	0	2	2
TAILORS	6	7	13
ALTERATION TAILORS	6	7	13

DELAWARE EMPLOYMENT PROJECTIONS BY OCCUPATION

ESTIMATED JOB OPENINGS
INCLUDING SELF-EMPLOYED AND UNPAID FAMILY WORKERS

AREA - STATEWIDE

OCCUPATIONAL TITLE	ANNUAL AVERAGE JOB OPENINGS 1984-1990		
	DUE TO GROWTH	DUE TO LABOR FORCE SEPARATIONS	ANNUAL AVERAGE TOTAL
UPHOLSTERING OCCUPATIONS	1	3	4
FURNITURE UPHOLSTERERS	1	3	4
CRAFTS & KINDRED WORKERS,NEC	78	143	221
MAINTENANCE REPAIRERS,GEN UTIL	55	92	147
MOBILE HOME REPAIRERS	0	1	1
MUSICAL INSTRUMENTS REPAIRERS	-1	0	-1
ALL OTHER SKILLED CRAFT WORKERS	24	50	74
OPERATIVES*******	315	794	1109
OPERATIVES,EX TRANSPORTATION	26	416	442
SEMISKILLED METALWORKING OPS	-6	38	32
DRILL PRESS OPERATIVES	0	1	1
DRILL PRESS/BORING MACHINE OPS	0	1	1
GRINDING/ABRADING MACH OPS,METAL	0	1	1
LATHE,MILLING MACH OPERATIVES	0	1	1
LATHE MACH OPERATORS,METAL	0	1	1
OTHER PRECISION MACH OPS	3	5	8
MACHINE TOOL OPERATORS,COMBO	0	3	3
MACHINE TOOL OPERATORS,NUM CONT	1	1	2
WOOD MACHINISTS	2	1	3
POWER PRESS OPERATIVES	4	4	8
PUNCH PRESS OPERATORS,METAL	1	2	3
PUNCH PRESS OPERATORS,PLASTICS	3	1	4
POWER BRAKE,BENDING MACH OPS,MET	0	1	1
WELDERS & FLAME CUTTERS	-13	26	13
WELDERS & FLAMECUTTERS	-13	26	13
SEMISKILLED TEXTILE OPERATIVES	-7	1	-6
KNITTERS,LOOPERS,& TOPPERS	-1	0	-1
KNITTING MACHINE OPERATORS	-1	0	-1
SPINNERS,TWISTERS,& WINDERS	-2	1	-1
CREELERS,YARN	-1	0	-1
DOFFERS	-1	1	0
OTHER TEXTILE OCCUPATIONS	-4	0	-4
BOIL-OFF MACHINE OPERATORS,CLOTH	-1	0	-1
TENTER FRAME OPERATORS	-2	0	-2
FOLDERS,HAND	-1	0	-1
SEMISKLD PACKNG,INSPECTNG OPS	25	39	64
GRADERS & SORTERS,MFG	1	4	5
GRADERS,FOOD &/OR SKINS	1	4	5
PACKERS,WRAPPERS,EX MEAT & PROD	24	35	59
PRODUCTION PACKAGERS	23	30	53
BUNDLERS	-1	0	-1

DELAWARE EMPLOYMENT PROJECTIONS BY OCCUPATION

ESTIMATED JOB OPENINGS
INCLUDING SELF-EMPLOYED AND UNPAID FAMILY WORKERS

AREA - STATEWIDE

OCCUPATIONAL TITLE	ANNUAL AVERAGE JOB OPENINGS 1984-1990		
	DUE TO GROWTH	DUE TO LABOR FORCE SEPARATIONS	ANNUAL AVERAGE TOTAL
BAGGERS	2	5	7
OTHER OPERATIVES,EX TRANSPORT	14	338	352
ASBESTOS & INSULATION WORKERS	4	6	10
ASSEMBLERS	-34	54	20
MOBILE HOME SET-UP OPERATORS	2	1	3
WIRERS,ELECTRONIC	0	1	1
ASSEMBLERS	7	7	14
MACHINE ASSEMBLERS	0	1	1
ELEC & ELECT ASSEMBLERS	0	3	3
ALL OTHER ASSEMBLERS	-43	41	-2
SURVEYOR HELPERS	3	0	3
CLOTHING IRONERS & PRESSERS	14	17	31
PRESSERS,HAND	0	2	2
PRESSERS,MACHINE	5	5	10
PRESSERS,MACHINE,LAUNDRY	10	9	19
PLEATING MACHINE OPERATORS	-1	1	0
CUTTING OPERATIVES,NEC	0	2	2
CUTTERS,MACHINE	1	1	2
CUTTERS,PORTABLE MACHINE	-1	0	-1
SHEAR &/OR SLITTER OPERATORS,MET	0	1	1
SEWERS,CUSTOM	1	2	3
DRY WALL INSTALLERS,LATHERS	2	3	5
DRY WALL APPLICATORS	3	2	5
LATHERS	-3	0	-3
TAPERS	2	1	3
FILERS,POLISHRS,SANDRS,BUFFRS	5	9	14
FILERS,GRINDERS,BUFFERS,CHIPPERS	5	9	14
GARAGE WORKERS,GAS STAT ATTNS	-13	11	-2
FUEL PUMP ATTENDANTS,LUBRICATORS	-14	9	-5
TIRE CHANGERS	1	2	3
LAUNDRY,DRYCLEANING OPS,NEC	15	14	29
MARKERS,CLASSIFIERS,ASSEMBLERS	0	1	1
WASHERS,MACH &/OR STARCHERS	5	5	10
DRYCLEANING MACHINE OPERATORS	4	2	6
LAUNDRY OPERATORS,SM ESTABLHMT	4	4	8
RUG CLEANERS,HAND	1	1	2
FOLDERS,LAUNDRY	1	1	2
MEAT CUTTERS,BUTCHERS	4	12	16
BONERS,POULTRY	4	12	16
MINE OPERATIVES,NEC	1	0	1
MILL &/OR GRINDER OPS,MINERALS	1	0	1
MIXING OPERATIVES	2	3	5
MIXERS,FOOD & TOBACCO	2	3	5
OILERS	1	2	3
PAINTERS,MFG ARTICLES	-11	13	2

DELAWARE EMPLOYMENT PROJECTIONS BY OCCUPATION

ESTIMATED JOB OPENINGS
INCLUDING SELF-EMPLOYED AND UNPAID FAMILY WORKERS

AREA - STATEWIDE

OCCUPATIONAL TITLE	ANNUAL AVERAGE JOB OPENINGS 1984-1990		
	DUE TO GROWTH	DUE TO LABOR FORCE SEPARATIONS	ANNUAL AVERAGE TOTAL
PAINTERS,AUTOMOTIVE	3	4	7
PAINTERS,PRODUCTION	-14	9	-5
OTHER PHOTO PROCESS WORKERS	4	0	4
SAILORS & DECKHANDS	-1	0	-1
ORDINARY SEAMEN	-1	0	-1
SAWYERS	1	0	1
SAWYERS,PLASTICS	1	0	1
SEWERS & STITCHERS	-30	36	6
MENDERS	1	1	2
SEWING MACH OPS,REG EQMT,NONGAR	1	3	4
GARMENT REPAIRERS	-1	0	-1
SEWING MACH OPS,SPEC EQMT,NONGAR	-1	1	0
SEWING MACH OPS,SPEC EQMT,GAR	-2	2	0
SEWING MACH OPS,REG EQMT,GARMENT	-28	29	1
SHOEMAKING MACHINE OPS	1	0	1
TRIMMERS,MACHINE	1	0	1
FURNACE TNDRS,STOKRS,EX METAL	1	9	10
STATIONARY BOILER FIRERS	1	7	8
FURNACE &/OR BURNER TENDERS	-1	1	0
FURNACE,KILN,DRIER OPS	1	1	2
MISC MACH OPS,MEAT & DAIRY	0	1	1
COOKS &/OR COOKERS	0	1	1
MISC MACH OPS,ALL OTH FOOD	7	5	12
WASHERS &/OR SEPARATORS,FOOD	1	1	2
REFINERY OPERATORS	1	2	3
FEED PELLET MILL OPERATORS	1	1	2
DOUGHNUT MAKRS/DOUGHNUT MACH OPS	4	1	5
MISC MACH OPS,TEXTILE MILL	-1	0	-1
CALENDER OPERATORS,CLOTH PRESSNG	-1	0	-1
MISC MACH OPS,PAPER,ALLIED	1	1	2
SCRAPPERS/STRIPPERS	1	1	2
MISC MACH OPS,CHEM,ALLIED	-26	40	14
SPINNERS,SYNTHETIC FILAMENTS	-25	10	-15
DRAW MACHINE OPERATORS	-1	1	0
EVAPORATOR OPERATORS,CHEMICAL	-3	3	0
CHEMICAL OPERATOR HELPERS	-4	5	1
CHEMICAL OPERATORS A	0	7	7
CHEMICAL OPERATORS B	3	9	12
DRIER OPERATORS,CHEM,PLAST,RUBBR	1	1	2
CHIEF OPERATORS	3	4	7
MISC MACH OPS,RUBBER,PLAST	29	11	40
HEAT SEALERS	1	0	1
EXTRUDER OPS,RUBBER OR PLASTICS	9	4	13
EXTRUDER OP HELPERS,RUB OR PLAS	3	1	4
BLOW MOLDING MACHINE OPERATORS	2	1	3
CALENDER OPS,RUBBER OR PLASTICS	2	1	3

DELAWARE EMPLOYMENT PROJECTIONS BY OCCUPATION

ESTIMATED JOB OPENINGS
INCLUDING SELF-EMPLOYED AND UNPAID FAMILY WORKERS

AREA - STATEWIDE

OCCUPATIONAL TITLE	ANNUAL AVERAGE JOB OPENINGS 1984-1990		
	DUE TO GROWTH	DUE TO LABOR FORCE SEPARATIONS	ANNUAL AVERAGE TOTAL
FINISHERS,MACHINE	1	0	1
COMPR &/OR INJECT MOLD MA OPS,PL	11	4	15
MISC MACH OPS,STONE,CLAY,GLA	2	1	3
CONCRETE STONE FABRICATORS	1	0	1
CONCRETE VAULT MAKERS	1	1	2
MISC MACH OPS,PRIMARY METALS	2	1	3
STRANDING MACHINE OPERATORS	0	1	1
STRIPING MACH OPERATORS,INS WIRE	2	0	2
MISC MACH OPS,MFG,NEC	4	4	8
SCREEN/STENCIL PRINTERS/SETTERS	-1	0	-1
FILTER/FILTER PRESS OPERATORS	-1	1	0
GRINDER OPERATORS	1	1	2
LAMINATORS,PREFORMS	2	1	3
PRESS OPERATORS,PLASTICS	3	1	4
MISC MACH OPS,NONMFG	-4	4	0
TIRE FABRICATORS,REPAIRERS	-2	2	0
REFINERY OPERATORS,PETROLEUM	-2	2	0
OPERATIVES,NEC,DURABLE GOODS	6	2	8
FABRICATORS,PLASTICS	3	1	4
FINISHERS,HAND	3	1	4
OPERATIVES,NEC,NONDUR GOODS	21	73	94
BAKER HELPERS	1	2	3
CHICKEN CUTTERS	7	16	23
POULTRY DRESSERS,EVISCERATORS	17	39	56
SHELLFISH SHUCKERS	2	4	6
REFINERY OPERATOR HELPERS,PETROL	-8	7	-1
THREAD TRIMMERS	0	1	1
CASTERS,PLASTICS	2	1	3
PURIFICATION OPERATORS,ETC	0	1	1
PRESS ASSISTANTS & FEEDERS	0	1	1
MAILERS	0	1	1
OPERATIVE,NEC,NONMFG	3	2	5
EXTERMINATORS	2	1	3
TERMITE TREATERS	1	1	2
TRANSPORT EQUIP OPERATIVES	201	245	446
BUS DRIVERS	27	91	118
BUS DRIVERS	6	17	23
BUS DRIVERS, SCHOOL	21	74	95
DELIVERY & ROUTE WORKERS	63	37	100
DELIVERY & ROUTE WORKERS	63	37	100
FORK LIFT,TOW MOTOR OPS	11	15	26
INDUSTRIAL TRUCK OPERATORS	11	15	26
PARKING LOT ATTENDANTS	4	8	12
BRAKERS,TRAIN	3	3	6
TOWER OPERATORS	0	1	1

DELAWARE EMPLOYMENT PROJECTIONS BY OCCUPATION

ESTIMATED JOB OPENINGS
INCLUDING SELF-EMPLOYED AND UNPAID FAMILY WORKERS

AREA - STATEWIDE

OCCUPATIONAL TITLE	ANNUAL AVERAGE JOB OPENINGS 1984-1990		
	DUE TO GROWTH	DUE TO LABOR FORCE SEPARATIONS	ANNUAL AVERAGE TOTAL
TAXICAB DRIVERS,CHAUFFERS	13	19	32
AMBULANCE DRIVERS/AMB ATTENDANTS	1	2	3
TAXI DRIVERS	4	9	13
DRIVERS,ASSEMBLY LINE	1	2	3
CHAUFFEURS	7	6	13
TRUCK DRIVING OCCUPATIONS	80	71	151
TRUCK DRIVERS	80	71	151
ALL OTHER OPS & SEMISKILLED WKRS	88	133	221
SERVICE WORKERS*******	1606	1745	3351
CLEANING SERVICE WORKERS	278	181	459
JANITORS,PORTERS,& CLEANERS	278	181	459
FOOD SERVICE WORKERS	729	706	1435
BAKERS,BREAD &/OR PASTRY	4	3	7
BARTENDERS	40	78	118
DINING RM ATTNS,BAR HELPERS,ETC	34	7	41
COOKS,EX PRIVATE	80	111	191
COOKS,SHORT ORDER/SPEC FAST FD	23	40	63
COOKS,RESTAURANT	36	40	76
COOKS,INSTITUTIONAL	21	31	52
BUTCHERS &/OR MEAT CUTTERS	13	11	24
WAITERS & WAITRESSES	126	194	320
HOSTS/HOSTESSES,REST,LNGE,COF SH	16	17	33
WAITERS OR WAITRESSES	110	177	287
FOOD WORKERS,NEC,EX PRIVATE	432	302	734
KITCHEN HELPERS	68	104	172
FD PREP & SERV WKRS,FAST FD REST	295	166	461
PANTRY,SANDWICH,&/OR COFF MAKERS	15	15	30
ALL OTHER FOOD SERVICE WORKERS	54	17	71
HEALTH SERVICE WORKERS	198	184	382
OCCUPATIONAL THERAPY AIDES	1	1	2
NURSING ASSISTANT OCCUPS	197	183	380
NURSES AIDES/ORDERLIES	166	155	321
PSYCHIATRIC AIDES	21	18	39
ORTHOPEDIC CAST SPECIALISTS	1	0	1
MEDICAL ASSISTANTS	9	10	19
PERSONAL SERVICE WORKERS	249	274	523
ATTNS,RECREATION & AMUSEMENT	15	13	28
RECREATION FACILITY ATTENDANTS	8	6	14
GAME OPS,RIDE OPS,CONCESS WKRS	1	1	2
PIN CHASERS	2	1	3

DELAWARE EMPLOYMENT PROJECTIONS BY OCCUPATION

ESTIMATED JOB OPENINGS
INCLUDING SELF-EMPLOYED AND UNPAID FAMILY WORKERS

AREA - STATEWIDE

OCCUPATIONAL TITLE	ANNUAL AVERAGE JOB OPENINGS 1984-1990		
	DUE TO GROWTH	DUE TO LABOR FORCE SEPARATIONS	ANNUAL AVERAGE TOTAL
LIFEGUARDS	4	5	9
ATTNS,PERSONAL SERVICE,NEC	50	64	114
MORTUARY BEAUTICIANS	1	1	2
FUNERAL ATTENDANTS	1	2	3
INSTRUCTORS,REDUCING	6	13	19
HOUSEKEEPERS,HOTEL & MOTEL	34	24	58
CHECKROOM & LOCKER RM ATTNS	1	1	2
GUIDES,SIGHTSEEING OR ESTABLHMT	7	23	30
BARBERS	16	20	36
CHILD CARE WORKERS,EX PRIVATE	84	82	166
CHILD CARE ATTENDANTS	22	19	41
CHILD CARE WORKERS	62	63	125
HAIRDRESSERS,COSMETOLOGISTS	74	76	150
COSMETOLOGISTS/WM'S HAIRSTYLISTS	66	68	134
MANICURISTS	1	1	2
SCALP TREATMENT OPERATORS	1	1	2
SHAMPOOERS	6	6	12
SCHOOL MONITORS	4	8	12
USHERS,LOBBY ATTNS,TICKET TAKERS	-1	1	0
SOCIAL SERVICE AIDES	7	10	17
PROTECTIVE SERVICE WORKERS	102	368	470
CROSSING GUARDS,BRIDGETENDRS	-1	16	15
SCHOOL CROSSING GUARDS	-1	16	15
FIREFIGHTING OCCUPATIONS	-1	5	4
FIRE FIGHTERS	-1	4	3
FIRE OFFICERS	0	1	1
GUARDS	104	327	431
GUARDS & DOORKEEPERS	95	258	353
CHECKERS,FITTING ROOM	2	9	11
FISH & GAME WARDENS	0	1	1
CORRECTION OFFICERS &/OR JAILERS	7	59	66
U.S. MARSHALLS	0	1	1
POLICE & DETECTIVES	1	16	17
STORE DETECTIVES	7	1	8
POLICE OFFICERS	-2	3	1
POLICE DETECTIVES	-1	1	0
POLICE PATROLMEN/WOMEN	-4	10	6
PARKING ENFORCEMENT OFFICERS	1	1	2
SHERIFFS & BAILIFFS	-1	3	2
SHERIFFS	-1	1	0
BAILIFFS	0	2	2

DELAWARE EMPLOYMENT PROJECTIONS BY OCCUPATION

ESTIMATED JOB OPENINGS
INCLUDING SELF-EMPLOYED AND UNPAID FAMILY WORKERS

AREA - STATEWIDE

OCCUPATIONAL TITLE	ANNUAL AVERAGE JOB OPENINGS 1984-1990		
	DUE TO GROWTH	DUE TO LABOR FORCE SEPARATIONS	ANNUAL AVERAGE TOTAL
OTHER SERVICE WORKERS	50	32	82
SUPERVISORS,NONWORKING,SERVICE	18	15	33
ALL OTHER SERVICE WORKERS	32	17	49
LABORERS,EX FARM*******	213	340	553
ANIMAL CARETAKERS	8	9	17
CONST LABRS,EX CARPEN HLPRS	0	12	12
FENCE ERECTORS	1	1	2
PIPELAYERS	1	3	4
REINFORCING-IRON WORKERS	0	2	2
HIGHWAY MAINTENANCE WORKERS	-3	4	1
ASPHALT RAKERS	1	2	3
FREIGHT,MATERIAL HANDLERS	1	4	5
LOADERS,TANK CARS &/OR TRUCKS	0	1	1
CONVEYOR OPERATORS OR TENDERS	2	2	4
WORK DISTRIBUTORS	-1	1	0
REFUSE COLLECTORS	-1	9	8
GARDENERS & GROUNDSKEEPERS	57	103	160
GARDENERS & GROUNDSKEEPERS	57	103	160
TIMBERCUTTING,LOGGING WKRS	1	1	2
FALLERS &/OR BUCKERS	1	1	2
STOCK HANDLERS	57	23	80
ORDER FILLERS	11	6	17
STOCK CLERKS,SALES FLOOR	46	17	63
VEHICLE WASHERS,EQUIP CLNRS	2	8	10
CLEANERS,VEHICLE	2	8	10
OTHER LABORERS	88	171	259
RIGGERS	0	2	2
HELPERS,TRADES	18	20	38
CANNERY WORKERS	10	34	44
LINE SERVICE ATTENDANTS	0	1	1
FOREST CONSERVATION WORKERS	-1	1	0
SEPTIC TANK SERVICERS,ETC	0	1	1
ALL OTHER LABORERS & UNSKLD WKRS	61	112	173
FARMERS & FARM WORKERS*******	33	54	87
FARMERS & FARM MANAGERS	1	1	2
FARM MANAGERS	1	1	2
FARM LABORERS, FARM SUPERVISORS	32	53	85
FARM SUPERVISORS	1	1	2
FARM LABORERS	31	52	83

APPENDIX D: DELAWARE INDUSTRY EMPLOYMENT FOR 1984, PROJECTED TO 1990, AND PERCENTAGE OF CHANGE

DELAWARE INDUSTRY EMPLOYMENT FOR 1984, PROJECTED TO 1990, AND PERCENTAGE OF CHANGE

INDUSTRY TITLE	EMPLOYMENT 1984 NUMBER	EMPLOYMENT 1984 PERCENT	EMPLOYMENT 1990 NUMBER	EMPLOYMENT 1990 PERCENT	EMPLOYMENT CHANGE 1984 - 1990 NUMBER	EMPLOYMENT CHANGE 1984 - 1990 PERCENT
TOTAL ALL INDUSTRIES	281577	100.00	322773	100.00	41196	14.63
AGRICULTURE,FORESTRY,AND FISHING, TOTAL	2236	0.79	2628	0.81	392	17.53
MINING,TOTAL	56	0.02	67	0.02	11	19.64
CRUDE PETROLEUM AND NATURAL GAS,TOTAL	33	0.01	39	0.01	6	18.18
OIL AND GAS FIELD SERVICES	29	0.01	34	0.01	5	17.24
NONMETALLIC MINING AND QUARRYING,TOTAL	23	0.01	28	0.01	5	21.74
SAND AND GRAVEL	23	0.01	28	0.01	5	21.74
CONSTRUCTION, TOTAL	16824	5.97	17872	5.54	1048	6.23
GENERAL BUILDING CONTRACTORS,TOTAL	4315	1.53	4368	1.35	53	1.23
RESIDENTIAL BUILDING CONSTRUCTION	2310	0.82	2338	0.72	28	1.21
OPERATIVE BUILDING	111	0.04	113	0.04	2	1.80
NONRESIDENTIAL BUILDING CONSTRUCTION	1894	0.67	1917	0.59	23	1.21
GENERAL CONTRACTORS,EXC BLDG,TOTAL	3342	1.19	3518	1.09	176	5.27
HIGHWAY AND STREET CONSTRUCTION	1161	0.41	1223	0.38	62	5.34
HEAVY CONSTRUCTION, EXCEPT HIGHWAY	2181	0.77	2295	0.71	114	5.23
SPECIAL TRADE CONTRACTORS,TOTAL	9167	3.26	9986	3.09	819	8.93
PLUMBING, HEATING, AIR CONDITIONING	2370	0.84	2582	0.80	212	8.95
PAINTING, PAPER HANGING, DECORATING	518	0.18	564	0.17	46	8.88
ELECTRICAL WORK	1498	0.53	1632	0.51	134	8.95
MASONRY, STONEWORK, AND PLASTER	1863	0.66	2029	0.63	166	8.91
CARPENTERING AND FLOORING	610	0.22	665	0.21	55	9.02
ROOFING AND SHEET METAL WORK	576	0.20	627	0.19	51	8.85
CONCRETE WORK	348	0.12	379	0.12	31	8.91
WATER WELL DRILLING	52	0.02	57	0.02	5	9.62
MISCELLANEOUS SPECIAL TRADE CONTRACTORS	1332	0.47	1451	0.45	119	8.93
MANUFACTURING, TOTAL	71715	25.47	73951	22.91	2236	3.12
DURABLE GOODS MANUFACTURING, TOTAL	19919	7.07	21433	6.64	1514	7.60
LUMBER AND WOOD PRODUCTS,TOTAL	729	0.26	833	0.26	104	14.27
LOGGING CAMPS AND LOGGING CONTRACTORS	46	0.02	53	0.02	7	15.22
SAWMILLS AND PLANING MILLS	35	0.01	40	0.01	5	14.29
MILLWORK, PLYWOOD, AND STRUCTURAL MEMBERS	192	0.07	219	0.07	27	14.06
WOODEN CONTAINERS	24	0.01	28	0.01	4	16.67
WOOD BUILDING AND MOBILE HOMES	402	0.14	459	0.14	57	14.18
MISCELLANEOUS WOOD PRODUCTS	30	0.01	34	0.01	4	13.33
FURNITURE AND FIXTURES,TOTAL	506	0.18	580	0.18	74	14.62
HOUSEHOLD FURNITURE	34	0.01	39	0.01	5	14.71
OFFICE FURNITURE	400	0.14	458	0.14	58	14.50
PARTITIONS AND FIXTURES	72	0.03	83	0.03	11	15.28
STONE,CLAY, AND GLASS TOTAL	852	0.30	1002	0.31	150	17.61
GLASS AND GLASSWARE, PRESSED OR BLOWN	41	0.01	48	0.01	7	17.07
PRODUCTS OF PURCHASED GLASS	38	0.01	45	0.01	7	18.42
CONCRETE, GYPSUM, AND PLASTER PRODUCTS	714	0.25	838	0.26	125	17.51

DELAWARE INDUSTRY EMPLOYMENT FOR 1984, PROJECTED TO 1990, AND PERCENTAGE OF CHANGE

INDUSTRY TITLE	EMPLOYMENT 1984 NUMBER	1984 EMPLOYMENT PERCENT	EMPLOYMENT 1990 NUMBER	1990 EMPLOYMENT PERCENT	EMPLOYMENT CHANGE 1984 - 1990 NUMBER	EMPLOYMENT CHANGE 1984 - 1990 PERCENT
CUT STONE AND STONE PRODUCTS	10	0.00	12	0.00	2	20.00
MISCELLANEOUS NONMETALLIC MINERAL PRODUCTS	45	0.02	53	0.02	8	17.78
PRIMARY METAL INDUSTRIES, TOTAL	1757	0.62	1919	0.59	162	9.22
BLAST FURNACES AND BASIC STEEL PRODUCTS	909	0.32	993	0.31	84	9.24
IRON AND STEEL FOUNDRIES	229	0.08	250	0.08	21	9.17
NONFERROUS ROLLING AND DRAWING	619	0.22	676	0.21	57	9.21
FABRICATED METAL PRODUCTS, TOTAL	1845	0.66	1770	0.55	75	-4.07
CUTLERY, HAND TOOLS, AND HARDWARE	15	0.01	15	0.00	0	0.00
PLUMBING AND HEATING, EXCEPT ELECTRICAL	253	0.09	242	0.07	-11	-4.35
FABRICATED STRUCTURAL METAL PRODUCTS	758	0.27	727	0.23	-31	-4.09
METAL STAMPINGS	308	0.11	296	0.09	-12	-3.90
METAL SERVICES, N.E.C.	111	0.04	106	0.03	-5	-4.50
MISCELLANEOUS FABRICATED METAL PRODUCTS	400	0.14	384	0.12	-16	-4.00
MACHINERY,EX ELECTRICAL, TOTAL	1160	0.41	1114	0.35	-46	-3.97
CONSTRUCTION AND RELATED MACHINERY	31	0.01	30	0.01	-1	-3.23
METALWORKING MACHINERY	45	0.02	44	0.01	-1	-2.22
SPECIAL INDUSTRY MACHINERY	246	0.09	236	0.07	-10	-4.07
GENERAL INDUSTRIAL MACHINERY	259	0.09	249	0.08	-10	-3.86
OFFICE, COMPUTING MACHINERY	108	0.04	103	0.03	-5	-4.63
MISCELLANEOUS MACHINERY, EXCEPT ELECTRICAL	462	0.16	443	0.14	-19	-4.11
ELEC. MACH.,EQUIPMNT, & SUPP,TOTAL	594	0.21	565	0.18	-29	-4.88
ELECTRIC DISTRIBUTING EQUIPMENT	17	0.01	16	0.00	-1	-5.88
ELECTRICAL INDUSTRIAL APPARATUS	89	0.03	85	0.03	-4	-4.49
ELECTRIC LIGHTING AND WIRING EQUIPMENT	47	0.02	44	0.01	-3	-6.38
COMMUNICATION EQUIPMENT	16	0.01	15	0.00	-1	-6.25
MISC. ELECTRICAL EQUIPMENT AND SUPPLIES	425	0.15	405	0.13	-20	-4.71
TRANSP. EQUIP, TOTAL	9115	3.24	9265	2.87	150	1.65
MOTOR VEHICLES AND EQUIPMENT	8951	3.18	9099	2.82	148	1.65
AIRCRAFT AND PARTS	135	0.05	137	0.04	2	1.48
SHIP AND BOAT BUILDING AND REPAIRING	10	0.00	10	0.00	0	0.00
RAILROAD EQUIPMENT	19	0.01	19	0.01	0	0.00
PROFESSIONAL,SCIENT INSTR, TOTAL	3172	1.13	4125	1.28	953	30.04
ENGINEERING AND SCIENTIFIC INSTRUMENTS	2291	0.81	2980	0.92	689	30.07
MECHANICAL MEASURING AND CONTROLLING	41	0.01	53	0.02	12	29.27
MEDICAL INSTRUMENTS AND SUPPLIES	832	0.30	1082	0.34	250	30.05
MISC MFG IND, TOTAL	189	0.07	260	0.08	71	37.57
TOYS AND SPORTING GOODS	87	0.03	120	0.04	33	37.93
PENS, PENCILS, AND OFFICE AND ART SUPPLIES	35	0.01	48	0.01	13	37.14
MISCELLANEOUS MANUFACTURES	67	0.02	92	0.03	25	37.31
NONDURABLE GOODS MANUFACTURING, TOTAL	51796	18.39	52518	16.27	722	1.39
FOOD & KINDRED PROD, TOTAL	8889	3.16	9435	2.92	546	6.14
MEAT PRODUCTS	3722	1.32	3951	1.22	229	6.15
DAIRY PRODUCTS	88	0.03	93	0.03	5	5.68
PRESERVED FRUITS AND VEGETABLES	1783	0.63	1893	0.59	110	6.17
GRAIN MILL PRODUCTS	157	0.06	167	0.05	10	6.37
BAKERY PRODUCTS	266	0.09	282	0.09	16	6.02

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INDUSTRY TITLE	EMPLOYMENT 1984 EMPLOYMENT NUMBER	1984 EMPLOYMENT PERCENT	1990 EMPLOYMENT NUMBER	1990 EMPLOYMENT PERCENT	EMPLOYMENT CHANGE 1984 - 1990 NUMBER	EMPLOYMENT CHANGE 1984 - 1990 PERCENT
FATS AND OILS	771	0.27	818	0.25	47	6.10
BEVERAGES	247	0.09	262	0.08	15	6.07
MISCELLANEOUS FOODS AND KINDRED PRODUCTS	1855	0.66	1969	0.61	114	6.15
TEXTILE MILL PRODUCTS;TOTAL	490	0.17	385	0.12	-105	-21.43
KNITTING MILLS	35	0.01	27	0.01	-8	-22.86
TEXTILE FINISHING, EXCEPT WOOL	362	0.13	285	0.09	-77	-21.27
MISCELLANEOUS TEXTILE GOODS	91	0.03	71	0.02	-20	-21.98
APPAREL & TEXTILE PRODUCTS, TOTAL	1287	0.46	1015	0.31	-272	-21.13
MEN'S AND BOYS' SUITS AND COATS	237	0.08	187	0.06	-50	-21.10
MEN'S AND BOYS' FURNISHINGS	265	0.09	209	0.06	-56	-21.13
WOMEN'S AND MISSES' OUTERWEAR	342	0.12	270	0.08	-72	-21.05
CHILDREN'S OUTERWEAR	138	0.05	109	0.03	-29	-21.01
MISCELLANEOUS APPAREL AND ACCESSORIES	145	0.05	114	0.04	-31	-21.38
MISCELLANEOUS FABRICATED TEXTILE PRODUCTS	160	0.06	126	0.04	-34	-21.25
PAPER & ALLIED PRODUCTS, TOTAL	2610	0.93	2811	0.87	201	7.70
PAPER MILLS, EXCEPT BUILDING PAPER	65	0.02	70	0.02	5	7.69
MISCELLANEOUS CONVERTED PAPER PRODUCTS	2036	0.72	2194	0.68	158	7.76
PAPERBOARD CONTAINERS AND BOXES	491	0.17	529	0.16	38	7.74
PRINTING & PUBLISHING INDUSTRIES, TOTAL	2120	0.75	2285	0.71	165	7.78
NEWSPAPERS	1014	0.36	1094	0.34	80	7.89
PERIODICALS	13	0.00	14	0.00	1	7.69
BOOKS	81	0.03	87	0.03	6	7.41
MISCELLANEOUS PUBLISHING	14	0.00	15	0.00	1	7.14
COMMERCIAL PRINTING	875	0.31	944	0.29	69	7.89
MANIFOLD BUSINESS FORMS	58	0.02	62	0.02	4	6.90
BLANKBOOKS AND BOOKBINDING	35	0.01	37	0.01	2	5.71
PRINTING TRADE SERVICES	30	0.01	32	0.01	2	6.67
CHEMICALS & ALLIED PRODUCTS, TOTAL	32070	11.39	30515	9.45	-1555	-4.85
INDUSTRIAL INORGANIC CHEMICALS	1700	0.60	1617	0.50	-83	-4.88
PLASTICS MATERIALS AND SYNTHETICS	20281	7.20	19298	5.98	-983	-4.85
DRUGS	1142	0.41	1086	0.34	-56	-4.90
INDUSTRIAL ORGANIC CHEMICALS	8790	3.12	8364	2.59	-426	-4.85
AGRICULTURAL CHEMICALS	157	0.06	150	0.05	-7	-4.46
PETROLEUM & COAL PRODUCTS, TOTAL	1124	0.40	1071	0.33	-53	-4.72
PETROLEUM REFINING	956	0.34	910	0.28	-46	-4.81
PAVING AND ROOFING MATERIALS	158	0.06	151	0.05	-7	-4.43
MISCELLANEOUS PETROLEUM AND COAL PRODUCTS	10	0.00	10	0.00	0	0.00
RUBBER & MISC PLASTICS PRODUCTS, TOTAL	3144	1.12	4928	1.53	1784	56.74
FABRICATED RUBBER PRODUCTS, N.E.C.	365	0.13	572	0.18	207	56.71
MISCELLANEOUS PLASTICS PRODUCTS	2779	0.99	4356	1.35	1577	56.75
LEATHER & LEATHER PRODUCTS, TOTAL	62	0.02	73	0.02	11	17.74
LUGGAGE	62	0.02	73	0.02	11	17.74
TRANSPORTATION, COMMUNICATIONS,& UTILITIES	13768	4.89	14044	4.35	276	2.00
TRANSPORTATION, TOTAL	9338	3.32	9579	2.97	241	2.58
RAILROAD TRANSPORTATION, TOTAL	1400	0.50	1475	0.46	75	5.36

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DELAWARE INDUSTRY EMPLOYMENT FOR 1984, PROJECTED TO 1990, AND PERCENTAGE OF CHANGE

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LOCAL & INTERURBAN TRANSIT, TOTAL	1455	0.52	1553	0.48	98	6.74
LOCAL AND SUBURBAN TRANSPORTATION	437	0.16	467	0.14	30	6.86
TAXICABS	37	0.01	39	0.01	2	5.41
INTERCITY HIGHWAY TRANSPORTATION	35	0.01	37	0.01	2	5.71
TRANSPORTATION CHARTER SERVICE	48	0.02	51	0.02	3	6.25
SCHOOL BUSES	898	0.32	959	0.30	61	6.79
TRUCKING & WAREHOUSING, TOTAL	3381	1.20	3482	1.08	101	2.99
TRUCKING, LOCAL AND LONG DISTANCE	2994	1.06	3083	0.96	89	2.97
PUBLIC WAREHOUSING	317	0.11	327	0.10	10	3.15
TRUCKING TERMINAL FACILITIES	70	0.02	72	0.02	2	2.86
U.S. POSTAL SERVICE	1676	0.60	1683	0.52	7	0.42
WATER TRANSPORTATION, TOTAL	781	0.28	722	0.22	-59	-7.55
LOCAL WATER TRANSPORTATION	132	0.05	122	0.04	-10	-7.58
WATER TRANSPORTATION SERVICES	649	0.23	600	0.19	-49	-7.55
AIR TRANSPORTATION, TOTAL	401	0.14	435	0.13	34	8.48
NONCERTIFICATED AIR TRANSPORATION	47	0.02	51	0.02	4	8.51
AIR TRANSPORTATION SERVICES	354	0.13	384	0.12	30	8.47
TRANSPORTATION SERVICES, TOTAL	244	0.09	229	0.07	-15	-6.15
ARRANGEMENT OF TRANSPORTATION	227	0.08	213	0.07	-14	-6.17
MISCELLANEOUS TRANSPORTATION SERVICES	15	0.01	14	0.00	-1	-6.67
COMMUNICATIONS AND UTILITIES, TOTAL	4430	1.57	4465	1.38	35	0.79
COMMUNICATIONS, TOTAL	1825	0.65	1868	0.58	43	2.36
TELEPHONE COMMUNICATION	1301	0.46	1332	0.41	31	2.38
RADIO AND TELEVISION BROADCASTING	307	0.11	314	0.10	7	2.28
COMMUNICATION SERVICES, N.E.C.	217	0.08	222	0.07	5	2.30
UTILITIES AND SANITARY SERVICES, TOTAL	2605	0.93	2597	0.80	-8	-0.31
ELECTRIC COMPANIES AND SYSTEMS	396	0.14	395	0.12	-1	-0.25
GAS COMPANIES AND SYSTEMS	326	0.12	325	0.10	-1	-0.31
COMBINATION COMPANIES AND SYSTEMS	1628	0.58	1623	0.50	-5	-0.31
WATER SUPPLY	176	0.06	175	0.05	-1	-0.57
SANITARY SERVICES	79	0.03	79	0.02	0	0.00
WHOLESALE AND RETAIL TRADE, TOTAL	61529	21.85	73218	22.68	11689	19.00
WHOLESALE TRADE, TOTAL	10482	3.72	12465	3.86	1983	18.92
WHOLESALE TRADE, DURABLE GOODS, TOTAL	5828	2.07	6857	2.12	1029	17.66
MOTOR VEHICLES AND AUTO PARTS AND SUPPLIES	793	0.28	933	0.29	140	17.65
FURNITURE AND HOME FURNISHINGS	390	0.14	459	0.14	69	17.69
LUMBER AND OTHER CONSTRUCTION MATERIALS	291	0.10	342	0.11	51	17.53
SPORTING,TOY,PHOTO,& HOBBY GDS & SUPPLIES	50	0.02	58	0.02	8	16.00
METALS AND MINERALS, EXCEPT PETROLEUM	118	0.04	139	0.04	21	17.80
ELECTRICAL GOODS	588	0.21	692	0.21	104	17.69
HARDWARE, PLUMBING, AND HEATING SUPPLIES	523	0.19	616	0.19	93	17.78
MACHINERY, EQUIPMENT, AND SUPPLIES	2762	0.98	3250	1.01	488	17.67
MISCELLANEOUS DURABLE GOODS	313	0.11	368	0.11	55	17.57
WHOLESALE TRADE, NONDURABLE GOODS, TOTAL	4654	1.65	5608	1.74	954	20.50
PAPER & PAPER PRODUCTS	262	0.09	316	0.10	54	20.61

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DRUGS, PROPRIETARIES, AND SUNDRIES	1105	0.39	1332	0.41	227	20.54
APPAREL, PIECE GOODS, AND NOTIONS	132	0.05	159	0.05	27	20.45
GROCERIES AND RELATED PRODUCTS	1206	0.43	1454	0.45	248	20.56
FARM-PRODUCT RAW MATERIALS	133	0.05	160	0.05	27	20.30
CHEMICALS AND ALLIED PRODUCTS	314	0.11	378	0.12	64	20.38
PETROLEUM AND PETROLEUM PRODUCTS	282	0.10	339	0.11	57	20.21
BEER, WINE, & DISTILLED ALCHOLIC BEVERAGES	406	0.14	489	0.15	83	20.44
MISCELLANEOUS NONDURABLE GOODS	814	0.29	981	0.30	167	20.52
RETAIL TRADE, TOTAL	51047	18.13	60753	18.82	9706	19.01
BLDG. MAT.,GARDEN SUP.,MOBILE HOMES, TOTAL	2067	0.73	2400	0.74	333	16.11
LUMBER AND OTHER BLDG. MATERIALS DEALERS	1105	0.39	1283	0.40	178	16.11
PAINT, GLASS, AND WALLPAPER STORES	111	0.04	129	0.04	18	16.22
HARDWARE STORES	447	0.16	519	0.16	72	16.11
RETAIL NURSERIES, LAWN AND GARDEN SUPPLIES	127	0.05	148	0.05	21	16.54
MOBILE HOME DEALERS	277	0.10	321	0.10	44	15.88
RETAIL TRADE, GENERAL MERCHANDISE, TOTAL	8229	2.92	9640	2.99	1411	17.15
DEPARTMENT STORES	6528	2.32	7647	2.37	1119	17.14
VARIETY STORES	1307	0.46	1531	0.47	224	17.14
MISCELLANEOUS GENERAL MERCHANDISE STORES	394	0.14	462	0.14	68	17.26
FOOD STORES, TOTAL	7570	2.69	9921	3.07	2351	31.06
GROCERY STORES	6273	2.23	8222	2.55	1949	31.07
MEAT AND FISH (SEAFOOD) MARKETS	382	0.14	500	0.15	118	30.89
FRUIT STORES AND VEGETABLE MARKETS	55	0.02	72	0.02	17	30.91
CANDY, NUT, AND CONFECTIONERY STORES	96	0.03	126	0.04	30	31.25
DAIRY PRODUCTS STORES	84	0.03	110	0.03	26	30.95
RETAIL BAKERIES	607	0.22	796	0.25	189	31.14
MISCELLANEOUS FOOD STORES	73	0.03	95	0.03	22	30.14
AUTOMOBILE & RECREATIONAL VEHICLES, TOTAL	5360	1.90	5416	1.68	56	1.04
MOTOR VEHICLE DEALERS (NEW & USED)	2855	1.01	2886	0.89	31	1.09
MOTOR VEHICLE DEALERS (USED ONLY)	132	0.05	133	0.04	1	0.76
AUTO AND HOME SUPPLY STORES	775	0.28	783	0.24	8	1.03
GASOLINE SERVICE STATIONS	1353	0.48	1368	0.42	15	1.11
BOAT DEALERS	145	0.05	146	0.05	1	0.69
RECREATIONAL AND UTILITY TRAILER DEALERS	47	0.02	47	0.01	0	0.00
MOTORCYCLE DEALERS	48	0.02	48	0.01	0	0.00
APPAREL AND ACCESSORIES STORES, TOTAL	2561	0.91	3193	0.99	632	24.68
MEN'S AND BOYS' CLOTHING AND FURNISHINGS	338	0.12	422	0.13	84	24.85
WOMEN'S READY-TO-WEAR STORES	1010	0.36	1260	0.39	250	24.75
WOMEN'S ACCESSORY AND SPECIALTY STORES	74	0.03	92	0.03	18	24.32
CHILDREN'S AND INFANTS' WEAR STORES	92	0.03	115	0.04	23	25.00
FAMILY CLOTHING STORES	300	0.11	374	0.12	74	24.67
SHOE STORES	588	0.21	733	0.23	145	24.66
FURRIERS AND FUR SHOPS	14	0.00	17	0.01	3	21.43
MISCELLANEOUS APPAREL AND ACCESSORIES	145	0.05	180	0.06	35	24.14
FURNITURE & HOME FURNISHINGS STORES, TOTAL	2104	0.75	2220	0.69	116	5.51
FURNITURE & HOME FURNISHINGS, EXC. APPL.	1186	0.42	1251	0.39	65	5.48

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HOUSEHOLD APPLIANCE STORES	378	0.13	399	0.12	21	5.56
RADIO, TELEVISION, AND MUSIC STORES	540	0.19	570	0.18	30	5.56
EATING AND DRINKING PLACES, TOTAL	15792	5.61	19315	5.98	3523	22.31
MISCELLANEOUS RETAIL STORES, TOTAL	7364	2.62	8648	2.68	1284	17.44
DRUG STORES & PROPRIETARY STORES	1532	0.54	1799	0.56	267	17.43
LIQUOR STORES	1170	0.42	1374	0.43	204	17.44
USED MERCHANDISE STORES	173	0.06	203	0.06	30	17.34
MISCELLANEOUS SHOPPING GOODS STORES	2196	0.78	2579	0.80	383	17.44
NONSTORE RETAILERS	304	0.11	357	0.11	53	17.43
FUEL AND ICE DEALERS	773	0.27	908	0.28	135	17.46
RETAIL STORES, N.E.C.	1216	0.43	1428	0.44	212	17.43
FINANCE, INSURANCE, AND REAL ESTATE, TOTAL	16860	5.99	24620	7.63	7760	46.03
BANKING, TOTAL	7639	2.71	13077	4.05	5438	71.19
COMMERCIAL AND STOCK SAVINGS BANKS	6873	2.44	11765	3.64	4892	71.18
MUTUAL SAVINGS BANKS	478	0.17	819	0.25	341	71.34
TRUST COMPANIES, NONDEPOSIT	256	0.09	438	0.14	182	71.09
FUNCTIONS CLOSELY RELATED TO BANKING	32	0.01	55	0.02	23	71.88
CREDIT AGENCIES OTHER THAN BANKS, TOTAL	1258	0.45	1668	0.52	410	32.59
SAVINGS AND LOAN ASSOCIATIONS	144	0.05	191	0.06	47	32.64
AGRICULTURAL CREDIT INSTITUTIONS	22	0.01	29	0.01	7	31.82
PERSONAL CREDIT INSTITUTIONS	585	0.21	776	0.24	191	32.65
BUSINESS CREDIT INSTITUTIONS	408	0.14	541	0.17	133	32.60
MORTGAGE BANKERS AND BROKERS	99	0.04	131	0.04	32	32.32
SECURITY & COMMODITY BROKERS,DEALERS,TOTAL	586	0.21	825	0.26	239	40.78
SECURITY BROKERS AND DEALERS	420	0.15	592	0.18	172	40.95
SECURITY AND COMMODITY SERVICES	166	0.06	233	0.07	67	40.36
INSURANCE CARRIERS, TOTAL	3377	1.20	4652	1.44	1275	37.76
LIFE INSURANCE	1484	0.53	2044	0.63	560	37.74
MEDICAL SERVICE AND HEALTH INSURANCE	531	0.19	731	0.23	200	37.66
FIRE, MARINE, AND CASUALTY INSURANCE	1330	0.47	1832	0.57	502	37.74
TITLE INSURANCE	23	0.01	32	0.01	9	39.13
INSURANCE AGENTS,BROKERS,& SERVICES, TOTAL	855	0.30	1178	0.36	323	37.78
REAL ESTATE, TOTAL	2654	0.94	2566	0.79	-88	-3.32
REAL ESTATE OPERATORS AND LESSORS	1539	0.55	1488	0.46	-51	-3.31
REAL ESTATE AGENTS AND MANAGERS	991	0.35	958	0.30	-33	-3.33
SUBDIVIDERS AND DEVELOPERS	124	0.04	120	0.04	-4	-3.23
COMB. R/E, INSURANCE, LOAN, LAW OFF.,TOTAL	15	0.01	17	0.01	2	13.33
HOLDING & OTHER INVESTMENT OFFICES,TOTAL	476	0.17	637	0.20	161	33.82
HOLDING OFFICES	365	0.13	489	0.15	124	33.97
INVESTMENT OFFICES	45	0.02	60	0.02	15	33.33
TRUSTS	47	0.02	63	0.02	16	34.04
MISCELLANEOUS INVESTING	19	0.01	25	0.01	6	31.58
SERVICES, TOTAL	80485	28.58	99200	30.73	18715	23.25
HOTELS & OTHER LODGING PLACES, TOTAL	2217	0.79	2650	0.82	433	19.53

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HOTELS, MOTELS, AND TOURIST COURTS	2154	0.76	2574	0.80	420	19.50
CAMPS AND TRAILERING PARKS	63	0.02	76	0.02	13	20.63
PERSONAL SERVICES, TOTAL	2766	0.98	3478	1.08	712	25.74
LAUNDRY, CLEANING, AND GARMENT SERVICES	882	0.31	1109	0.34	227	25.74
PHOTOGRAPHIC STUDIOS, PORTRAIT	81	0.03	102	0.03	21	25.93
BEAUTY SHOPS	1076	0.38	1352	0.42	276	25.65
BARBER SHOPS	90	0.03	114	0.04	24	26.67
SHOE REPAIR,SHOE SHINE,HAT CLEANING SHOPS	15	0.01	19	0.01	4	26.67
FUNERAL SERVICE AND CREMATORIES	129	0.05	162	0.05	33	25.58
MISCELLANEOUS PERSONAL SERVICES	493	0.18	620	0.19	127	25.76
MISCELLANEOUS BUSINESS SERVICES, TOTAL	13698	4.86	18191	5.64	4493	32.80
ADVERTISING	212	0.08	282	0.09	70	33.02
CONSUMER CREDIT REPORTING AND COLLECTION	140	0.05	186	0.06	46	32.86
MAILING,REPRO.,COMM.ART,& STENO. SERVICES	493	0.18	655	0.20	162	32.86
SERVICES TO DWELLINGS AND OTHER BUILDINGS	3806	1.35	5054	1.57	1248	32.79
PERSONNEL SUPPLY SERVICES	4035	1.43	5358	1.66	1323	32.79
COMPUTER AND DATA PROCESSING SERVICES	1210	0.43	1607	0.50	397	32.81
MISCELLANEOUS BUSINESS SERVICES	3802	1.35	5049	1.56	1247	32.80
AUTOMOBILE REPAIR,SERVICES,GARAGES, TOTAL	1955	0.69	2147	0.67	192	9.82
AUTOMOBILE RENTALS, LEASING, W/O DRIVERS	494	0.18	542	0.17	48	9.72
AUTOMOBILE PARKING	121	0.04	133	0.04	12	9.92
AUTOMOBILE REPAIR SHOPS	1122	0.40	1233	0.38	111	9.89
AUTOMOBILE SERVICES, EXCEPT REPAIR	218	0.08	239	0.07	21	9.63
MISC REPAIR SERVICES, TOTAL	785	0.28	850	0.26	65	8.28
ELECTRICAL REPAIR SHOPS	225	0.08	244	0.08	19	8.44
REUPHOLSTERY AND FURNITURE REPAIR	56	0.02	60	0.02	4	7.14
MISC. REPAIR SHOPS AND RELATED SERVICES	504	0.18	546	0.17	42	8.33
MOTION PICTURES, TOTAL	238	0.08	193	0.06	-45	-18.91
MOTION PICTURE PRODUCTION AND SERVICES	17	0.01	13	0.00	-4	-23.53
MOTION PICTURE THEATERS	221	0.08	180	0.06	-41	-18.55
AMUSE & REC.,EXC MOTION PIC, TOTAL	2254	0.80	3237	1.00	983	43.61
DANCE HALLS, STUDIOS, AND SCHOOLS	29	0.01	42	0.01	13	44.83
THEATRICAL PRODUCERS,BANDS,ENTERTAINERS	73	0.03	105	0.03	32	43.84
BOWLING ALLEYS AND BILLIARD AND POOL ESTAB	311	0.11	446	0.14	135	43.41
COMMERCIAL SPORTS	619	0.22	889	0.28	270	43.62
MISC. AMUSEMENT AND RECREATION SERVICES	1222	0.43	1755	0.54	533	43.62
HEALTH SERVICES, TOTAL	19673	6.99	24760	7.67	5087	25.86
OFFICES OF PHYSICIANS	2205	0.78	2776	0.86	571	25.90
OFFICES OF DENTISTS	1153	0.41	1451	0.45	298	25.85
OFFICES OF OSTEOPATHIC PHYSICIANS	75	0.03	94	0.03	19	25.33
OFFICES OF OTHER HEALTH PRACTITIONERS	360	0.13	453	0.14	93	25.83
NURSING AND PERSONAL CARE FACILITIES	2878	1.02	3622	1.12	744	25.85
HOSPITALS	11654	4.14	14668	4.54	3014	25.86
MEDICAL AND DENTAL LABORATORIES	529	0.19	666	0.21	137	25.90
OUTPATIENT CARE FACILITIES	492	0.17	619	0.19	127	25.81
HEALTH AND ALLIED SERVICES, N.E.C.	327	0.12	411	0.13	84	25.69

DELAWARE INDUSTRY EMPLOYMENT FOR 1984, PROJECTED TO 1990, AND PERCENTAGE OF CHANGE

INDUSTRY TITLE	EMPLOYMENT 1984 NUMBER	EMPLOYMENT 1984 PERCENT	EMPLOYMENT 1990 NUMBER	EMPLOYMENT 1990 PERCENT	EMPLOYMENT CHANGE 1984 - 1990 NUMBER	EMPLOYMENT CHANGE 1984 - 1990 PERCENT
LEGAL SERVICES, TOTAL	1788	0.63	2213	0.69	425	23.77
EDUCATIONAL SERVICES, TOTAL	23465	8.33	25650	7.95	2185	9.31
SOCIAL SERVICES, TOTAL	4225	1.50	6596	2.04	2371	56.12
INDIVIDUAL AND FAMILY SOCIAL SERVICES	1005	0.36	1569	0.49	564	56.12
JOB TRAINING AND VOCATIONAL REHAB SERVICES	604	0.21	942	0.29	338	55.96
CHILD DAY CARE SERVICES	943	0.33	1472	0.46	529	56.10
RESIDENTIAL CARE	1090	0.39	1702	0.53	612	56.15
SOCIAL SERVICES, N.E.C.	583	0.21	911	0.28	328	56.26
MUSEUMS,ART GALLERIES, & ZOOS, TOTAL	740	0.26	860	0.27	120	16.22
MUSEUMS AND ART GALLERIES	740	0.26	860	0.27	120	16.22
MEMBERSHIP ORGANIZATIONS, TOTAL	3583	1.27	4400	1.36	817	22.80
BUSINESS ASSOCIATIONS	193	0.07	237	0.07	44	22.80
PROFESSIONAL MEMBERSHIP ORGANIZATIONS	97	0.03	119	0.04	22	22.68
LABOR UNIONS & SIMILAR LABOR ORGANIZATIONS	352	0.13	432	0.13	80	22.73
CIVIC, SOCIAL, AND FRATERNAL ASSOCIATIONS	1072	0.38	1316	0.41	244	22.76
RELIGIOUS ORGANIZATIONS	1705	0.61	2094	0.65	389	22.82
MEMBERSHIP ORGANIZATIONS, N.E.C.	164	0.06	202	0.06	38	23.17
PRIVATE HOUSEHOLDS, TOTAL	767	0.27	1088	0.34	321	41.85
MISCELLANEOUS SERVICES, TOTAL	2331	0.83	2887	0.89	556	23.85
ENGINEERING,ARCHITECT.,SURVEYING SERVICES	1410	0.50	1746	0.54	336	23.83
NONCOMMERCIAL EDUC.,SCIENT.,RESEARCH ORGAN	91	0.03	113	0.04	22	24.18
ACCOUNTING,AUDITING,& BOOKKEEPING SERVICES	807	0.29	999	0.31	192	23.79
SERVICES, N.E.C.	23	0.01	29	0.01	6	26.09
GOVERNMENT, TOTAL	18104	6.43	17173	5.32	-931	-5.14
FEDERAL GOVERNMENT	3275	1.16	2919	0.90	-356	-10.87
STATE GOVERNMENT,EXC.EDUCATION & HOSPITALS	10018	3.56	9610	2.98	-408	-4.07
LOCAL GOVERNMENT,EXC.EDUCATION & HOSPITALS	4811	1.71	4644	1.44	-167	-3.47

APPENDIX E: ALPHABETICAL LISTING OF CLUSTER OCCUPATIONS

ALPHABETICAL LISTING OF DELAWARE OCCUPATIONS

OCCUPATION TITLE	MATRIX CODE	CLUSTER NUMBER
ACCOUNTANTS & AUDITORS	10240201	370
ACCOUNTING CLERKS	40060601	380
ACTORS OR ACTRESSES	10220200	440
ACTUARIAL CLERKS	40065204	960
ACTUARIES	10060200	1020
ADJUSTMENT CLERKS	40062208	960
ADMISSIONS EVALUATORS	40062603	990
AGRICULTURAL SCIENTISTS	10040200	60
AIR HAMMER OPERATORS	80000601	220
AIR TRAFFIC CONTROLLERS	10140400	1060
AIRCRAFT MECHANICS	50080400	690
AIRPLANE PILOTS	10140200	1200
ALL OTHER ASSEMBLERS	61080440	490
ALL OTHER BINDERY WORKERS	50100208	160
ALL OTHER ENGINEERING TECHS	10081898	530
ALL OTHER ENGINEERS	10022099	360
ALL OTHER FOOD SERVICE WORKERS	70041899	480
ALL OTHER LABORERS & UNSKILLED WKRS	80002899	550
ALL OTHER MANAGERS	20061699	20
ALL OTHER MATH SCIENTISTS	10060403	1020
ALL OTHER MECHANICS & REPAIRERS	50083299	750
ALL OTHER MED & DENT TECHNICIANS	10121099	850
ALL OTHER OFFICE CLERICAL WKRS	40056838	960
ALL OTHER OFFICE MACHINE OPS	40041400	960
ALL OTHER OP & SEMISKILLED WKRS.	63000000	560
ALL OTHER PLANT CLERICAL WKRS	40066899	960
ALL OTHER PROFESSIONAL WORKERS	10243899	1060
ALL OTHER SALES WORKERS	30001899	670
ALL OTHER SCIENCE TECHS	10081899	1130
ALL OTHER SERVICE WORKERS	70200099	1195
ALL OTHER SERVICE WORKERS	70200099	1195
ALL OTHER SKILLED CRAFTWORKERS	50144899	250
ALL OTHER SOCIAL SCIENTISTS	10181200	1050
ALL OTHER TEACHERS	10206099	990
ALL OTHER TECHNICIANS	10101404	1130
ALL OTHER THERAPISTS	10101810	940
ALTERATION TAILORS	50144401	600
AMBULANCE DRIVERS/AMB ATTENDANT	62002001	820
ANIMAL CARETAKERS	80000200	1195
ANIMAL CARETAKERS	80000200	1195
ANNOUNCERS	10222201	180
APPRAISERS, REAL ESTATE	10243816	420
ARCHITECTS	10240400	290
ASBESTOS & INSULATION WORKERS	61080200	240
ASPHALT PLANT OPERATORS	61083806	560
ASPHALT RAKERS	80000629	220
ASSEMBLERS	61080419	490
ASSESSORS	10243817	420
ASSISTANT PROFESSOR	10202007	990

ALPHABETICAL LISTING OF DELAWARE OCCUPATIONS

OCCUPATION TITLE	MATRIX CODE	CLUSTER NUMBER
ASSOCIATE PROFESSOR	10202006	990
ASST. PRINCIPALS	20041602	990
ATHLETIC COACHES	10202009	990
AUDIO VISUAL SPECIALISTS	10242402	1010
AUTO BODY REPAIRERS	50080800	710
AUTO REPAIR SERVICE ESTIMATORS	50081003	710
AUTOMOTIVE MECHANICS	50081001	700
AUXILIARY EQUIPMENT OPERATORS	50144004	590
BACK TENDERS	61087015	570
BAGGAGE HANDLERS	70080803	1195
BAGGERS	61060804	540
BAILIFFS	70101202	1080
BAKER HELPERS	61089003	450
BAKERS	50140202	450
BAKERS, BREAD &/OR PASTRY	70040200	450
BALLAST CLEAN MACH OPERATORS,ET	50021810	220
BARBERS	70081000	1150
BARTENDERS	70040400	480
BATCH PLANT OPERATORS	50021809	220
BEAM WARPER TENDERS &/OR BEAMER	61040601	600
BEATERS	61087018	570
BELLHOPS, BAG PORTERS, DRKPRS, ETC	70080801	1195
BICYCLE REPAIRERS	50083202	750
BILL POSTERS	61089203	560
BINDERY WORKERS,ASSEMBLY	50100206	160
BIOCHEMISTRY TECHNOLOGISTS	10120202	840
BIOLOGICAL SCIENTISTS	10040601	1100
BLACKSMITHS	50060200	40
BLANCHING MACHINE OPERATORS	61086213	560
BLOCK MAKING MACHINE OPERATORS	61088038	560
BLOOD BANK TECH SPECILAISTS	10120207	840
BLOW MOLDING MACHINE OPERATORS	61087631	580
BOIL-OFF MACHINE OPERATORS,CLOT	61041005	600
BOILERMAKERS	50060400	640
BONERS,POULTRY	61083202	470
BOOKBINDERS,MACHINE	50100205	160
BOOKKEEPERS,HAND	40060603	380
BOOKKEEPING/BILLING MACH OPS	40040201	380
BRAKERS, TRAIN	62001600	1210
BRICK/BLOCKLAYERS	50020601	190
BROADCAST NEWS ANALYSTS	10222202	180
BROADCAST TECHNICIANS	10080808	180
BROKERAGE CLERKS	40065205	390
BROKERS, FLOOR REPS	10243819	410
BUNDLERS	61060803	540
BUS DRIVERS	62000401	1220
BUS DRIVERS, SCHOOL	62000402	1220
BUSINESS BROKERS	30001401	420
BUTCHERS &/OR MEAT CUTTERS	70041400	460

ALPHABETICAL LISTING OF DELAWARE OCCUPATIONS

OCCUPATION TITLE	MATRIX CODE	CLUSTER NUMBER
BUYERS,RETAIL &/OR WHOLSL TRADE	10240804	670
CABINETMAKERS	50140400	270
CABLE SPLICERS	50120201	590
CALCINER OPERATORS	61087213	560
CALENDER OPERATORS,CLOTH PRESSN	61086604	600
CALENDER OPS., RUBBER/PLASTICS	61087633	580
CAMERA OPERATORS,PRINTING	50101002	160
CANCELLATION CLERKS	40066805	960
CANNERY WORKERS	80002824	470
CAPTAINS, WATER VESSEL	20060801	1060
CAR RENTAL CLERKS	40061601	670
CAR REPAIRERS	50082803	1210
CARD TENDRS,COMBER TENDRS,ETC	61040202	600
CARPENTERS	50020201	200
CARPET CUTTERS, CARPET LAYERS	50140600	240
CASEWORKERS	10243401	1040
CASHIERS	40060800	670
CASTERS, PLASTIC	61089078	580
CEILING TILE INSTALLRS,FLR LAYR	50124002	200
CEMENT MASONS	50021201	190
CENTRAL OFFICE OPERATORS	40066202	1170
CENTRAL OFFICE REPAIRERS	50121010	210
CHAUFFEURS	62002007	1220
CHECKERS,FITTING ROOM	70100602	670
CHECKROOM & LOCKER RM ATTNS	70080618	1195
CHEESEMAKER HELPERS	61089007	470
CHEMICAL ENGINEERS	10020400	300
CHEMICAL OPERATOR HELPERS	61087288	500
CHEMICAL OPERATORS A	61087290	500
CHEMICAL OPERATORS B	61087291	500
CHEMISTS	10040800	1110
CHICKEN CUTTERS	61089008	470
CHIEF EXECUTIVES,LEGIS.	20041000	20
CHIEF OPERATORS	61087295	500
CHILD CARE ATTENDANTS	70081601	1140
CHILD CARE WORKERS	70081602	1140
CHIROPRACTORS	10100200	760
CIRCULATION CLERKS	40061605	960
CIVIL ENGINEER	10020600	305
CIVIL ENGINEERING TECHNICIANS	10081816	310
CLAIMS ADJUSTERS	40062803	400
CLAIMS CLERKS	40062210	960
CLAIMS EXAMINERS, INSURANCE	40062801	400
CLAIMS EXAMINERS, PROP/CASUALTY INS.	10243822	400
CLAIMS TAKERS,UNEMP BENEFITS	10243818	10
CLEANERS, VEHICLE	80002401	550
CLERGY	10241000	980
CLERICAL SUPERVISORS	40061200	10
CLOTH OR CARPET WINDERS	61040605	600

ALPHABETICAL LISTING OF DELAWARE OCCUPATIONS

OCCUPATION TITLE	MATRIX CODE	CLUSTER NUMBER
CLOTH PRINTERS	61041011	600
COATER OPERATORS, OFF-MACHINE	61087023	570
CODING MIXERS, TENDERS	61083817	560
COILERS, WINDERS, &/OR SPOOLERS	61088229	560
COIN MACHINE SERVICERS, REPAIRER	50083215	750
COLLECTORS	40061400	390
COLORISTS TEXTILES	10081811	600
COMMERCIAL ARTISTS	10221601	140
COMMUNITY ORGANIZATION WORKER	10243405	1040
COMPOSITORS &/OR TYPESETTERS	50100400	160
COMPOUNDERS	61083818	220
COMPR. &/OR INJ. MOLDING MACH. OPS, PL.	61087645	580
COMPRESSORS, TABLET	61087284	500
COMPUTER OPERATORS	40040601	110
COMPUTER PROGRAMMERS	10160200	120
CONCRETE MIXER OPERATORS	50021802	220
CONCRETE PIPE MAKERS	61088814	560
CONCRETE RUBBERS	50021203	190
CONCRETE STONE FABRICATORS	61088040	560
CONCRETE VAULT MAKERS	61088070	560
CONDUCTORS, TRAIN	20061200	1210
CONSTRUCTION INSPECTORS	20040400	240
CONTRIBUTION SOLICITORS	30001804	670
CONTROL ROOM OPERATORS, STEAM	50144002	590
CONVEYOR OPERATORS OR TENDERS	80001020	550
COOKS &/OR COOKERS	61086035	470
COOKS, INSTITUTIONAL	70040804	480
COOKS, RESTAURANT	70040803	480
COOKS, SHORT ORDER/SPEC FAST FD	70040802	480
COOLER ROOM WORKERS, MEAT	61089009	470
CORRECTION OFFICERS &/OR JAILER	70100607	1080
CORRUGATOR OPERATORS	61087060	570
COSMETOLOGISTS/WM'S HAIRSTYLIST	70082001	1150
COST ESTIMATORS	10243808	240
COUNTY AGRIC. SPECIALISTS	10241400	30
COURT CLERKS	40065216	960
CRANE, DERRICK, & HOIST OPERATORS	50140801	220
CRATING & MOVING ESTIMATORS	30001805	670
CREDIT ANALYSTS	10243810	410
CREDIT ANALYSTS, CHIEF	10243809	410
CREDIT AUTHORIZERS	40062201	390
CREDIT CLERKS, BANK&/ORINSURANCE	40066841	390
CREDIT REPORTERS	40062211	390
CREELERS, YARN	61040606	600
CURRICULUM SPECIALISTS	10243801	990
CUT-OFF SAW OPERATORS, LUMBER	61085003	90
CUTTERS, PORTABLE MACHINE	61081417	600
CUTTING & CREASING PRESS OPERATORS	61087056	570
CYTOTECHNOLOGISTS	10120204	840

ALPHABETICAL LISTING OF DELAWARE OCCUPATIONS

OCCUPATION TITLE	MATRIX CODE	CLUSTER NUMBER
DAIRY PROCESSING EQMT OPERATORS	61086026	470
DANCE INSTRUCTORS	10206001	990
DATA PROCESSING MACH MECHANIC	50081400	720
DELIVERY & ROUTE WORKERS	62000801	1220
DENTAL ASSISTANTS	10120401	770
DENTAL HYGIENISTS	10120402	780
DENTAL LAB TECHNICIANS	50141200	790
DENTISTS	10100400	800
DESIGNERS	10221001	140
DESK CLERK, BOWLING FLOOR	40061608	960
DESK CLERKS	40061603	960
DESK CLERKS, BOWLING FLOOR	40061608	1195
DETECTIVES, PRIVATE	70101001	1080
DIE CUTTERS,CLICKING MACH OPS	61081424	610
DIESEL MECHANICS	50083222	700
DIESEL PLANT OPERATORS	50144003	590
DIETETIC TECHNICIANS	10121011	480
DIETITIANS & NUTRITIONISTS	10100600	810
DINING RM ATTNS,BAR HELPERS,ETC	70040600	480
DIP PLATERS,NONELECTROLYTIC	61021202	640
DIRECTORS,REL ACT &/OR REL ED	10141200	980
DIRECTORY ASSISTANCE OPERATORS	40066203	1170
DISPATCHERS,POLICE,FIRE,AMBULNC	40061803	1170
DISPATCHERS,VEHICLE,SERV OR WK	40061804	1170
DIVIDING MACH OPERATORS,ETC	61086259	470
DOFFERS	61040607	600
DOUGHNUT MKRS/DOUGHNUT MACH OP	61086258	450
DRAFTERS	10080601	320
DRAW MACHINE OPERATORS	61087235	560
DRIER OPERATORS	61086295	470
DRIER OPERATORS,CHEM,PLAST,RUBB	61087294	500
DRILL PRESS/BORING MACHINE OPS	61020201	610
DRIVERS, ASSEMBLY LINE	62002005	560
DRY WALL APPLICATORS	61082001	200
DRYCLEANING MACHINE OPERATORS	61082806	1190
DUPLICATING MACHINE OPERATORS	40040800	960
DYE RANGE OPS/SP DYE BECK TNDRS	61082204	600
ECONOMISTS	10180202	1050
EEG TECHNICIANS	10121007	850
EKG TECHNICIANS	10121006	850
ELEC & ELECT TECHNICIANS	10080803	510
ELEC & ELECTRONIC ASSEMBLERS	61080439	490
ELECTR. MECH. EQUIP. ASSEMBLERS	61080438	490
ELECTRIC METER INSTALLERS, ETC	50082002	210
ELECTRIC MOTOR REPAIRERS	50083204	210
ELECTRICAL ENGINEERS	10020800	330
ELECTRICIANS	50021401	210
ELECTROLYTIC CELL MAKERS, REPAIRERS	61080417	560
ELECTROMEDICAL EQUIPMT REPAIRER	50083224	720

ALPHABETICAL LISTING OF DELAWARE OCCUPATIONS

OCCUPATION TITLE	MATRIX CODE	CLUSTER NUMBER
ELECTROPLATERS	61021201	640
EMBALMERS	10140600	1195
EMERGENCY MEDICAL TECHNICIANS	10121008	820
EMPLOYMENT INTERVIEWERS	10242803	10
ENGINEERING EQUIPMT MECHANICS	50081803	220
ESTIMATORS & DRAFTERS, UTILITIES	10080602	320
EVAPORATOR OPERATORS, CHEMICAL	61087254	500
EXTENSION SERVICE SPECIALISTS	10202004	30
EXTERMINATORS	61089204	1160
EXTRUDER OP. HELPERS, RUBBER/PLASTIC	61087624	580
EXTRUDER OPERATORS, RUBBER/PLASTIC	61087623	580
FABRICATORS, PLASTICS	61088817	580
FALLERS &/OR BUCKERS	80001805	90
FARM EQUIPMENT MECHANICS	50081600	40
FARM LABORERS	90040400	50
FARM MANAGERS	90020400	30
FARM SUPERVISORS	90040200	30
FD PREP & SERV WKRS, FAST FD RES	70041804	480
FEED PELLET MILL OPERATORS	61086236	50
FENCE ERECTORS	80000607	240
FILE CLERKS	40062601	960
FILERS, GRINDERS, BUFFERS, CHIPPER	61 82401	610
FILTER/FILTER PRESS OPERATORS	61088405	560
FINANCIAL ANALYSTS	10180201	410
FINISHERS, HAND	61088818	560
FINISHERS, MACHINE	61087639	580
FIRE FIGHTERS	70100401	1070
FIRE OFFICERS	70100403	1070
FIRERS, LOCOMOTIVES	50120600	1210
FISH & GAME WARDENS	70100606	70
FLEXO FOLDER-GLUER OPERATORS	61087043	570
FLOOR SANDING MACHINE OPERATOR	50022000	240
FOLDERS, HAND	61041028	600
FOLDERS, LAUNDRY	61082818	1190
FOREST CONSERVATION WORKERS	80002831	70
FORESTERS & CONSERVATION MGT	10241600	70
FORM SETTERS, METAL ROAD FORM	80000603	220
FORM TAMPER OPERATORS, ETC	50021806	220
FOURDRINIER MACHINE TENDER	61087014	570
FRAME WIRERS	50121009	210
FUEL PUMP ATTENDANTS, LUBRICATOR	61082605	700
FUNERAL ATTENDANTS	70080607	1195
FURNACE &/OR BURNER TENDERS	61085612	560
FURNACE OPERATORS, CUPOLA TENDERS	61020436	520
FURNACE OPERATORS, HELPERS	80002819	550
FURNACE, KILN, DRIER OPERATORS	61085619	560
FURNITURE ASSEMBLERS & INSTALLR	62000802	270
FURNITURE FINISHERS	50141400	270
FURNITURE UPHOLSTERERS	50144601	280

ALPHABETICAL LISTING OF DELAWARE OCCUPATIONS

OCCUPATION TITLE	MATRIX CODE	CLUSTER NUMBER
GAGERS	61083620	560
GAME OPS, RIDE OPS, CONCESS WKRS	70080402	1195
GARDENERS & GROUNDSKEEPERS	80001401	80
GARMENT REPAIRERS	61085212	1190
GAS & ELEC APPLIANCE REPAIRERS	50082005	750
GASOLINE ENGINE, MOWER REPAIRERS	50083207	700
GENERAL CLERKS,OFFICE	40066811	960
GEOLOGISTS & GEOPHYSICISTS	10041000	1120
GLASS BLOWERS	50144805	250
GLASS BLOWING LATHE OPERATORS	61021002	560
GLASS INSTALLERS	50141801	710
GLAZIERS	50141802	240
GRADERS,FOOD &/OR SKINS	61060401	470
GRADUATE ASSISTANTS	10202003	990
GRANULATOR MACHINE OPERATORS	61088628	560
GRINDER OPERATORS	61088407	560
GRINDING/ABRADING MACH OPS,META	61020600	610
GROUP RECREATION WORKERS	10243201	1095
GUARDS & DOORKEEPERS	70100601	1080
GUIDES,SIGHTSEEING OR ESTABLHMT	70080619	660
HAMMERSMITHS, OPEN DIE	50060803	520
HEAT TREATERS,ANNEALERS,ETC	50060600	610
HEATERS, METAL	61020800	520
HEAVY EQUIPMENT OPERATORS	50021807	220
HELPERS, TRADES	80002823	240
HIGHWAY MAINTENANCE WORKERS	80000628	220
HISTOLOGIC TECHNOLOGISTS	10120205	840
HOSPITAL INSURANCE REPRESENTATIVES	10243803	400
HOSTLERS	50120403	1210
HOSTS/HOSTESSES,REST,LNGE,COF S	70041601	480
HOUSEHOLD APPLIANCE INSTALLERS	50082007	680
HOUSEKEEPERS,HOTEL & MOTEL	70080616	1180
HYDROELECTRIC MACHINE MECHS,ETC	50081804	730
IN-FILE OPERATORS	40066812	960
INDUSTRIAL ENGINEERS	10021000	360
INDUSTRIAL ENGINRING TECHNICIAN	10031000	530
INDUSTRIAL TRUCK OPERATORS	62001001	540
INHALATION THERAPISTS	10101809	950
INSPECTORS	50142202	250
INSTALLERS, REPAIRERS, TELE	50121001	210
INSTRUCTORS, REDUCING	70080611	1195
INSTRUCTORS,CORRESP. SCH.	10206003	990
INSTRUMENT MAKERS/ASSEMBLERS	61080437	490
INSTRUMENT REPAIRERS	50083221	730
INSUL. WRAPPING/BRAIDING MACHINE OPER.	61088437	560
INSULATING EXTRUDING MACHINE OPERATORS	61088280	560
INSURANCE CHECKERS	40065217	960
INSURANCE CLERKS	40066845	960
INSURANCE CLERKS,MEDICAL	40066846	960

ALPHABETICAL LISTING OF DELAWARE OCCUPATIONS

OCCUPATION TITLE	MATRIX CODE	CLUSTER NUMBER
INVESTIGATORS, INSURANCE	10243815	400
JANITORS, PORTERS, & CLEANERS	70020600	1160
JEWELERS &/OR SILVERSMITHS	50142401	260
JUDGES	10242001	1000
KETTLE OPERATORS, ADHESIVE	61087257	500
KEY ENTRY OPERATORS	40041000	130
KITCHEN HELPERS	70041802	480
KNITTING MACHINE OPERATORS	61040403	600
LAMINATORS, PREFORMS	61088415	560
LATHE MACH OPERATORS, METAL	61021006	610
LATHERS	61082002	200
LAUNDRY OPERATORS, SM ESTABLHMT	61082809	1190
LAW CLERKS	10242201	1000
LAWYERS	10242202	1000
LAYOUT MARKERS, METAL	50061202	610
LECTURERS	10202008	990
LETTER PRESS OPERATORS	50101207	160
LETTERSET PRESS OPERATORS	50101208	160
LIBRARIANS	10242401	1010
LIBRARY ASSISTANTS	40063000	1010
LICENSE CLERKS	40066848	960
LICENSED PRACTICAL NURSES	10121010	910
LIFE & PHYSICAL SCIENT NEC	10041600	1120
LIFEGUARDS	70080407	1195
LINE INSTALLERS, REPAIRERS	50120202	590
LINE SERVICE ATTENDANTS	80002830	550
LOADER ENGINEERS	50140802	220
LOADERS, TANK CARS &/OR TRUCKS	80001019	550
LOAN CLOSERS	40066801	390
LOCKSMITHS	50083212	750
LOCOMOTIVE ENGINEERS	50120405	1210
LOGGING TRACTOR OPERATORS	50021000	90
MACHINE ASSEMBLERS	61080436	490
MACHINE CUTTER	61081403	560
MACHINE SETTERS, PAPER GOODS	50144819	250
MACHINE TOOL OPERATORS, COMBO	61021402	610
MACHINE TOOL OPERATORS, NUM CONT	61021403	610
MACHINE TOOL SETTERS, METALWRKIN	50061003	610
MACHINISTS	50061206	610
MAGISTRATES	10242002	1000
MAIL CLERKS	40063402	1170
MAILERS	61089097	1170
MAINTENANCE MECHANICS	50081807	730
MAINTENANCE REPAIRERS, GEN UTIL	50144821	1160
MANAGERS, AUTO PARTS DEPT	20061614	670
MANAGERS, AUTO SERVICE DEPT	20061613	670
MANAGERS, MERCHANDISE	20020800	670
MANAGERS, REST'RANT, COFFEE SH, ET	20061400	480
MANAGERS, STORE	20061612	670

ALPHABETICAL LISTING OF DELAWARE OCCUPATIONS

OCCUPATION TITLE	MATRIX CODE	CLUSTER NUMBER
MANICURISTS	70082003	1150
MANUAL ARTS, MUSIC, REC THERAPIST	10101802	940
MARGIN CLERKS	40065208	390
MARINE MECHANICS/REPAIRERS	50081806	740
MARKERS	61089092	600
MARKERS, CLASSIFIERS, ASSEMBLERS	61082801	1190
MEAT GRINDERS	61086033	470
MECHAN ENGINEERING TECHNICIANS	10081400	350
MECHANICAL ENGINEERS	10021200	340
MEDIA BUYERS	10240803	650
MEDIA CLERKS/ESTIMATORS/BILLERS	40066809	650
MEDICAL ASSISTANTS	70061013	830
MEDICAL LAB ASSISTANTS	10120206	840
MEDICAL LAB TECHNOLOGISTS	10120201	840
MEDICAL RECORD LIBRARIANS	10120600	1010
MEDICAL SCIENTISTS	10040602	1100
MENDERS	61085204	600
MERCHAN DISPLAYERS & WIND TRMRS	50141000	670
MESSENGERS	40063602	960
MESSENGERS, BANK	40063601	960
METALLURGISTS & MET ENGINEERS	10021400	360
METER READERS	40063800	960
MICROBIOLOGY TECHNOLOGISTS	10120203	840
MILL &/OR GRINDER OPS, MINERALS	61083646	220
MILLERS	50142603	50
MILLING/PLANING MACHINE OPERATR	61021007	610
MILLWRIGHTS	50061600	240
MIXERS, FOOD & TOBACCO	61053856	50
MOBILE HOME REPAIRERS	50144825	1160
MOBILE HOME SET-UP OPERATORS	61080401	560
MOLDERS, MACHINE (METAL)	50061805	520
MORTGAGE CLOSING CLERKS	40066842	960
MORTUARY BEAUTICIANS	70030602	1195
MOTION PICTURE PROJECTIONISTS	50142800	1195
MOTOR BOAT OPERATORS	62000200	560
MUSEUM CURATOR	10240603	430
MUSICAL INSTRUMENT REPAIRERS	50144826	750
MUSICIANS, INSTRUMENTAL	10221404	440
NAILING MACHINE OPERATORS	61084602	270
NEW ACCOUNTS TELLERS	40060201	390
NURSES AIDES/ORDERLIES	70061010	830
NURSES, PROFESSIONAL	10100800	920
OCCUPATIONAL THERAPISTS	10101801	940
OCCUPATIONAL THERAPY AIDES	70060400	940
OFFBEARERS	80001009	90
OFFICE MACH SERVS/CASH REGIST	50082400	720
OFFSET LITHOGRAPHIC PRESS OPS	50101202	160
OILERS	61084000	220
OPTICIANS, DISP. &/OR OPTIC MECH	50143002	850

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ALPHABETICAL LISTING OF DELAWARE OCCUPATIONS

OCCUPATION TITLE	MATRIX CODE	CLUSTER NUMBER
OPTOMETRISTS	10101000	860
ORDER CLERKS	40061604	960
ORDER FILLERS	80002001	540
ORDINARY SEAMEN	61084803	740
ORTHOPEDIC CAST SPECIALISTS	70061012	850
OTHER PHOTO PROCESS WORKERS	61084400	150
OVEN OPERATORS	61086292	470
PAINTERS, PRODUCTION	61084210	560
PAINTERS,AUTOMOTIVE	61084201	710
PAINTERS,MAINTENANCE	50022200	240
PANTRY,SANDWICH,&/OR COFF MAKER	70041805	480
PAPER CUP MACHINE OPERATORS	61087031	570
PAPERHANGERS	50022600	240
PARALEGAL PERSONNEL	10242203	1000
PARKING ENFORCEMENT OFFICERS	70101007	1080
PARKING LOT ATTENDANTS	62001400	1220
PAYROLL/TIMEKEEPING CLERKS	40064000	380
PERIPHERAL EDP EQPT OPERATORS	40040602	110
PERSONNEL CLERKS	40062602	960
PERSONNEL,LABOR REL SPECIALISTS	10242802	10
PHARMACISTS	10101200	870
PHARMACY HELPERS	10121009	850
PHOTOENGRAVERS	50101003	160
PHOTOGRAPHERS	10221805	150
PHYSICAL THERAPISTS	10101804	880
PHYSICAL THERAPY TECHNICIANS	10121012	940
PHYSICIANS &/OR SURGEONS	10101400	890
PHYSICISTS	10041400	1120
PICKER TENDER	61040206	560
PIN CHASERS	70080403	1195
PINSETTER MECHANICS,AUTOMATIC	50083225	750
PIPE STRIPPERS	61088851	560
PIPELAYERS	80000609	240
PLASTERERS	50022801	240
PLATEMAKERS	50101203	160
PLATER HELPERS	61088834	560
PLEATING MACHINE OPERATORS	61081207	600
PLUMBERS &/OR PIPEFITTERS	50023203	230
PODIATRISTS	10101600	900
POLICE DETECTIVES	70101005	1080
POLICE OFFICERS	70101004	1080
POLICE PATROLMEN/WOMEN	70101006	1080
POLICY CHANGE CLERKS	40066815	960
POLISHERS, GLASS &/OR BLOCKERS	61082408	560
POSTAL MAIL CARRIERS	40063200	1170
POSTAL SERVICE CLERKS	40064200	1170
POSTMASTERS &/OR MAIL SUPERINTS	20041200	1170
POULTRY DRESSERS,EVISCERATORS	61089040	470
POURERS, METAL	61020435	520

ALPHABETICAL LISTING OF DELAWARE OCCUPATIONS

OCCUPATION TITLE	MATRIX CODE	CLUSTER NUMBER
POWER BRAKE,BENDING MACH OPS,ME	61021611	610
PRESS ASSISTANTS & FEEDERS	61089095	160
PRESS OPERATORS, PLASTIC	61088416	580
PRESS OPERATORS,PLATE PRINTERS	50101201	160
PRESSERS,HAND	61081201	1190
PRESSERS,MACHINE	61081202	1190
PRESSERS,MACHINE,LAUNDRY	61081203	1190
PRINCIPALS	20041601	990
PRINTER SLOTTER OPERATOR	61087032	570
PRINTER-SLOTTER FEEDERS	61089042	160
PROCUREMENT CLERKS	40065402	960
PRODUCTION CLERKS	40062400	540
PRODUCTION PACKAGERS	61060802	540
PROFESSORS	10202005	990
PROOF MACHINE OPERATORS	40040202	380
PROOFREADERS, COMPOSED COPY	40064410	160
PROSTHETISTS, ORTHOTISTS	10121005	850
PROTECTIVE SIGNAL INST/REPAIRER	50083220	210
PROTECTIVE SIGNAL OPERATORS	40066831	1170
PSYCHIATRIC AIDE	70061011	830
PSYCHOLOGISTS	10080600	1030
PUBLIC ADM INSPECTORS, EX CONST	20040800	1090
PUBLIC RELATIONS SPECIALISTS	10122000	650
PUNCH PRESS OPERATORS, PLASTICS	61021610	580
PUNCH PRESS OPERATORS,METAL	61021609	610
PURCHASE & SALES CLERKS,SECURIT	40066816	390
PURCHASING AGENTS &/OR BUYERS	10240801	10
PURIFICATION OPERATORS, ETC.	61089091	560
RADIO & TV SERVICERS REPAIR	50082600	720
RADIOLOGIC TECHS & NUC MED TECH	10120804	930
RATE CLERKS,FREIGHT	40066838	960
RATERS	40065209	390
REAL ESTATE BROKERS	30001402	420
REAL ESTATE CLERKS	40066818	960
RECEPTIONISTS	40064802	960
RECREATION FACILITY ATTENDANTS	70080401	1195
REFINERY OPERATOR HELPERS,PETRO	61089067	500
REFINERY OPERATORS	61086224	560
REFINERY OPERATORS,PETROLEUM	61088625	500
REFRACTORY MATERIALS REPAIRERS	50020606	190
REFRIG/A.C. & HEATING MECHANICS	50080200	680
REFUSE COLLECTORS	80001200	550
REINFORCING-IRON WORKERS	80000610	240
REPORTERS & CORRESPONDENTS	10221203	170
RETORT OPERATORS	61086204	470
RIGGERS	80002822	550
RIGHT-OF-WAY AGENTS	10240805	1060
RIPSAW OPERATORS	61085012	270
RIVETERS,LIGHT	61084606	620

ALPHABETICAL LISTING OF DELAWARE OCCUPATIONS

OCCUPATION TITLE	MATRIX CODE	CLUSTER NUMBER
ROOFERS	50023600	200
ROUSTABOUTS	61083629	560
RUG CLEANER, HAND	61082812	1190
SAFETY INSPECTOR	10243804	1090
SALES AGENTS, SALES REP, FIN	30001604	410
SALES AGENTS, SALES REP, SEC	30001605	410
SALES AGENTS, SALES REP., INS	30001005	400
SALES AGENTS, SALES REPS, REAL ESTATE	30001403	420
SALES CLERK SUPERVISORS	30001806	670
SALES CLERKS	30001802	670
SANDBLASTERS/SHOTBLASTERS	61082402	640
SAWYERS, PLASTICS	61085015	580
SCALP TREATMENT OPERATORS	70082004	1150
SCHOOL CROSSING GUARDS	70100203	1195
SCHOOL CROSSING GUARDS	70100203	1195
SCHOOL MONITORS	70082600	1195
SCRAPPERS/STRIPPERS	61087063	570
SCREEN MAKERS,PHOTOGRAPHIC PROC	61088402	150
SCREEN/STENCIL PRINTERS/SETTERS	61 88401	160
SECRETARIES	4[illegible]20200	970
SECTION REPAIRERS & SETTERS	5[illegible]31814	1210
SECURITIES CASHIERS,EXCHANGE	4[illegible]56814	390
SEPTIC TANK SERVICERS	8[illegible]2832	550
SERVICE CLERKS	40066824	960
SERVICE REPRESENTATIVES	40066808	960
SETTERS, PLASTIC MOLDING MACHINE	50061009	580
SETTERS,BINDERY MACHINES	50100202	160
SEWAGE PLANT OPERATORS	5014[illegible]013	1090
SEWER TAPPERS	80000612	550
SEWERS, CUSTOM	61081600	600
SEWING MACH OPS,REG EQMT,GARMEN	61085220	600
SEWING MACH OPS,REG EQMT,NONGAR	61085205	600
SEWING MACH OPS,SPEC EQMT,GAR	61085219	600
SEWING MACH OPS,SPEC EQMT,NONGA	61085215	600
SEWING MACHINE MECHANICS	50083218	750
SHAMPOOERS	70082006	1150
SHAPERS & PRESSERS	61081208	1190
SHEAR &/OR SLITTER OPERATORS,ME	61081459	620
SHEAR &/OR SLITTER SETTERS	50061008	620
SHEET METAL WORKERS	50062600	620
SHELLFISH SHUCKERS	61089053	470
SHERIFFS	70101201	1080
SHIP ENGINEERS	50144026	740
SHIPPING & RECEIVING CLERKS	40065001	540
SHIPPING PACKERS	40065002	540
SHOE REPAIRERS	50 43602	750
SIGNAL MAINTAINERS	50082802	1210
SOABAR OPERATORS	61088443	600
SOCIAL SERVICE AIDES	70083000	830

ALPHABETICAL LISTING OF DELAWARE OCCUPATIONS

OCCUPATION TITLE	MATRIX CODE	CLUSTER NUMBER
SPECIAL AGENTS, INS.	10243820	400
SPEECH & HEARING CLINICIANS,ETC	10101803	940
SPINNERS,SYNTHETIC FILAMENTS	61087225	600
SPORTS INSTRUCTORS	10220403	990
SPOTTERS,DRYCLEANING	61082802	1190
STATEMENT CLERKS	40066823	390
STATION AGENTS	40066401	1210
STATION INSTALLERS	50121003	210
STATIONARY BOILER FIRERS	61085602	590
STATIONARY ENGINEERS	50144014	590
STATISTICAL CLERKS	40065211	960
STATISTICIANS	10060600	1020
STENOGRAPHERS	40020400	970
STICKER	61089065	460
STOCK CLERKS,SALES FLOOR	80002003	540
STOCK CLERKS,STOCKRM,WAREHS,ETC	40065404	540
STONE MASONS	50020602	190
STORE DETECTIVES	70101002	1080
STRANDING MACHINE OPERATORS	61 38260	560
STRIPPERS PRINTING	50101001	160
STRUCTURAL STEEL WORKERS	50 23800	220
SUPERINTENDENTS	20 41603	990
SUPERVISORS, NONWORKING	50 40003	250
SUPERVISORS, NONWORKING, SERVICE	70200001	1195
SUPERVISORS, NONWORKING, SERVICE	70200001	1195
SURGICAL TECHNICIANS	10101002	850
SURVEY WORKERS	40062000	1170
SURVEYOR HELPERS	61081000	310
SURVEYORS	10081600	310
SWITCHBD OPS/RECEPTIONISTS	40064803	960
SWITCHBOARD OPERATORS	40 6201	1170
SWITCHBOARD OPS,GENERATING PLAN	50120800	590
SYSTEMS ANALYSTS, EDP	10100400	120
TAPERS	61032003	200
TAPING MACHINE OPERATOR	61 37038	570
TAX EXAMINERS, COLLECTORS	10240203	380
TAX PREPARERS	10240204	380
TAXI DRIVERS	62002004	1220
TEACHERS AIDES/EDUC ASSISTANTS	40 5600	990
TEACHERS, ADULT EDUCATION	10201000	990
TEACHERS, COLLEGE	10202002	990
TEACHERS, PRE-SCHOOL/ELEMENTARY	10203002	990
TEACHERS, SECONDARY	10205000	990
TEACHERS, VOC. ED. OR TRAIN.	10202001	990
TECHNICAL ASSISTANTS, LIBRARY	10141405	1010
TELEGRAPH OPERATORS	40066000	1170
TELEPHONE AD TAKERS,NEWSPAPER	40061607	960
TELEVISION CAMERA OPERATORS	10221802	180
TELLERS	40060203	390

ALPHABETICAL LISTING OF DELAWARE OCCUPATIONS

OCCUPATION TITLE	MATRIX CODE	CLUSTER NUMBER
TENTER FRAME OPERATORS	61041025	600
TERMITE TREATERS	61089210	1160
TESTERS	50142205	250
THREAD TRIMMERS	61089071	600
TICKET AGENTS	40066405	660
TILE SETTERS	50024001	190
TIRE CHANGERS	61082606	700
TIRE FABRICATORS, REPAIRERS	61088614	560
TITLE EXAMINERS &/OR ABSTRACTO	10243811	420
TITLE SEARCHERS	40066825	960
TOOL & DIE MAKERS	50063001	610
TOWER OPERATOR	62001800	1210
TOWN CLERKS	40066840	10
TRADE RECORDERS	40065207	390
TRAFFIC AGENTS	40066402	670
TRAFFIC CLERKS	40066826	960
TRANSIT CLERKS	40040203	380
TRAVEL AGTS,TR ACCOM APPRAISERS	10[illegible]3821	660
TRAVEL COUNSELORS,AUTO CLUB	40[illegible]64804	660
TREATMENT PLANT MECHANICS	5[illegible]81810	1090
TREE TRIMMERS	80[illegible]01402	80
TRIMMERS,MACHINE	61[illegible]85439	560
TROUBLE LOCATORS,TEST DESK	50121011	720
TROUBLE SHOOTERS,POWER LINE	50120203	590
TRUCK DRIVERS	62002201	1220
TUMBLER OPERATORS	61082805	1190
TURBINE OPERATORS	50144015	590
TURNERS	61[illegible]41027	600
TYPISTS	40[illegible]00600	960
U.S. MARSHALLS	70100800	1080
UMPIRES	10[illegible]3404	1060
UNDERWRITERS	10[illegible]3814	400
URBAN & REGIONAL PLANNERS	10131000	1050
USHERS, LOBBY ATTNS, TICKET TAKER	70082800	1195
USHERS, LOBBY ATTNS, TICKET TAKER	70082800	1195
VENDORS	30001803	670
VETERINARIANS	10102000	100
VOCATIONAL & ED COUNSELORS	10[illegible]3600	990
WAITERS OR WAITRESSES	70041602	480
WASHERS &/OR SEPARATORS,FOOD	61086207	470
WASHERS,MACH &/OR STARCHERS	61082804	1190
WASTE TREATMENT PLANT OPS, CHEM.	50144021	1090
WATCHMAKERS	50142402	260
WATER METER INSTALLERS	50082009	230
WATER TREATMENT PLANT OPERATORS	50144025	1090
WEIGHERS,RECORD KEEPING	40066600	540
WELDERS & FLAMECUTTERS	61022002	630
WHOLESALERS	20061615	670
WIRE DRAWERS	61038850	560

ALPHABETICAL LISTING OF DELAWARE OCCUPATIONS

OCCUPATION TITLE	MATRIX CODE	CLUSTER NUMBER
WIRERS,ELECTRONIC	61080415	720
WOOD MACHINISTS	61021404	270
WORK DISTRIBUTORS	80001023	540
WORKSHEET CLERKS	40065212	960
WRITERS & EDITORS	10221201	170
X-RAY TECHNICIANS	10120801	930
YARD ENGINEERS	50120402	1210
YARN WINDERS	61040618	600

APPENDIX F: ALPHABETICAL LISTING OF CLUSTER PROGRAMS

ALPHABETICAL LISTING OF DELAWARE PROGRAMS

PROGRAM TITLE	CIP CODE	CLUST NO.
ACCOUNTING	06.0201	0370
ACCOUNTING & COMPUTING	07.0102	0380
ACCOUNTING, BOOKEEPING, AND RELATED PROG	07.0101	0380
ADVERTISING	09.0201	0650
AG BUS & MANAGEMENT	01.0101	0030
AG SCIENCES, GENERAL	02.0101	0060
AGRICULTURAL BUSINESS	01.0102	0030
AGRICULTURAL ECONOMICS	01.0103	0030
AGRICULTURAL EDUCATION	13.1301	0990
AGRICULTURAL POWER MACHINERY	01.0204	0040
AGRICULTURAL PRODUCTION, GENERAL	01.0301	0050
AGRONOMY	02.0402	0060
AIR CONDITIONING AND REFRIGERATION	15.0501	0680
AIRCRAFT MECHANICS	47.0602	0690
ALL OTHER ENGINEERS	14.0301	0360
ALLIED HEALTH, OTHER	17.9999	0850
AMERICAN STUDIES	05.0102	1050
ANIMAL GROOMING	01.0504	1195
ANIMAL GROOMING	01.0504	1195
ANIMAL PRODUCTION	01.0302	0050
ANIMAL SCIENCES, GENERAL	02.0201	0060
ANTHROPOLOGY	45.0201	1050
APPLIANCE REPAIR	47.0106	0750
ARBORICULTURE	01.0602	0080
ARCHITECTURAL DESIGN & CONSTRUCTION TECH	15.0101	0320
ARCHITECTURAL INTERIOR DESIGN TECHNOLOGY	15.0102	0320
ART CONSERVATION	50.0702	0430
ART EDUCATION	13.1302	0990
ART HISTORY & APPRECIATION	50.0703	0430
ASBESTOS INSTALLATION	46.0407	0240
ATOMIC/MOLECULAR PHYSICS	40.0802	1120
AUTOMOTIVE BODY REPAIR	47.0603	0710
AUTOMOTIVE MECHANICS	47.0604	0700
AUTOMOTIVE TECHNOLOGY	15.0803	0700
BAKING	20.0402	0450
BANK CLERK	07.0206	0390
BANK TELLER	07.0205	0390
BANKING AND FINANCE	06.0301	0410
BARGE & BOAT OPERATION	49.0302	0740
BIOLOGICAL TECHNOLOGIES, OTHER	41.0199	1100
BIOLOGY, GENERAL	26.0101	1100
BOOKKEEPING	07.0103	0380
BRICK, BLOCK, AND STONEMASONRY	46.0102	0190
BUILDING MAINTENANCE	46.0401	1160
BUSINESS & MANAGEMENT	06.0101	0020
BUSINESS ADMIN & MANAGEMENT	06.0401	0020
BUSINESS AND MANAGEMENT, GENERAL	06.9999	0020
BUSINESS AND OFFICE, OTHER	07.9999	0960
BUSINESS COMPUTER / CONSOLE OPERATION	07.0302	0110

ALPHABETICAL LISTING OF DELAWARE PROGRAMS

PROGRAM TITLE	CIP CODE	CLUST NO.
BUSINESS DATA ENTRY	07.0303	0130
BUSINESS DATA PROCESSING	07.0301	0110
BUSINESS DATA PROCESSING, OTH	07.0399	0110
BUSINESS DATA PROGRAMMING	07.0305	0120
BUSINESS ECONOMICS	06.0501	0020
BUSINESS EDUCATION	13.1303	0990
BUSINESS MACHINE REPAIR	47.0102	0720
CARPENTRY	46.0201	0200
CHEF/COOK	20.0403	0480
CHEMICAL ENGINEERS	14.0701	0300
CHEMICAL MANUFACTURING TECHNOLOGY	15.0601	0500
CHEMISTRY	40.0501	1110
CHILD CARE AIDE/ASSISTING	20.0202	1140
CHILD CARE, GUIDANCE & MGMT. SERVICES	20.0201	1140
CIVIL ENGINEERING	14.0801	0305
CIVIL TECHNOLOGY	15.0201	0310
CLINICAL LABORATORY ASSISTING	17.0305	0840
CLOTH.,APPAREL & TEXTILES MGT.,PROD.,& S	20.0301	0600
COMMERCIAL ART	48.0203	0140
COMMERCIAL FISHING OPERATIONS	49.0603	0740
COMMERCIAL PHOTOGRAPHY	48.0204	0150
COMMUNICATIONS ELECTRONICS	47.0103	0720
COMMUNICATIONS, GENERAL	09.0101	0170
COMMUNICATIONS, OTHER	09.9999	0170
COMPUTER & INFO SCIENCES	11.0101	0120
COMPUTER TECHNOLOGY	15.0301	0110
CONSTRUCTION EQUIPMENT OPERATION	49.0202	0220
CONSTRUCTION SUPERVISION	06.2001	0240
CONSTRUCTION TRADES, OTHER	46.9999	0240
CONSUMER SCIENCE	19.0402	0810
CORRECTIONS	43.0102	1080
COSMETOLOGY	12.0403	1150
CREDIT COLLECTION CLERK	07.0202	0390
CRIMINAL JUSTICE	43.0105	1080
CRIMINAL JUSTICE ADMINISTRATION	43.0103	1080
CRIMINAL JUSTICE STUDIES	43.0104	1080
CRIMINOLOGY	45.0401	1050
CROP PRODUCTION	01.0304	0050
CURRICULUM & INSTRUCTION	13.0301	0990
CUSTODIAL SERVICES	20.0604	1160
DATA PROCESSING	11.0301	0110
DENTAL ASSISTING	17.0101	0770
DENTAL HYGIENE	17.0102	0780
DENTAL LABORATORY TECHNOLOGY	17.0103	0790
DIESEL ENGINE MECHANICS	47.0605	0700
DIETETICS	19.0503	0810
DRAFTING AND DESIGN TECHNOLOGY	15.0202	0320
DRAFTING, GENERAL	48.0101	0320
DRAMATIC ARTS	50.0501	0440

ALPHABETICAL LISTING OF DELAWARE PROGRAMS

PROGRAM TITLE	CIP CODE	CLUST NO.
DUAL ENGINEERING PROGRAMS	15.9999	0360
DUPLICATING MACHINE OPERATION	07.0704	0960
ECOLOGY	26.0603	1100
ECONOMICS	45.0601	1050
EDUCATION OF GIFTED	13.1004	0990
EDUCATION, GENERAL	13.0101	0990
EDUCATION, OTHER	13.9999	0990
ELECTRICAL & ELECT EQUIPMENT REPAIR	47.0101	0720
ELECTRICAL AND POWER TRANSMISSION INSTAL	46.0301	0210
ELECTRICAL CONSTRUCTION, OTHER	46.0399	0210
ELECTRICAL ENGINEERING	14.1001	0330
ELECTRICAL MAINTENANCE	46.0302	0210
ELECTRICAL TECHNOLOGY	15.0302	0510
ELECTRONIC EQUIPMENT REPAIR, OTHER	47.0199	0720
ELECTRONICS TECHNOLOGY	15.0303	0510
ELEMENTARY EDUCATION	13.1202	0990
EMERG. MED. TECH.,AMBULANCE	17.0205	0820
EMERG. MED. TECH/PARAMEDIC	17.0206	0820
ENGINEERING ADMIN & MGT	30.0301	0020
ENGINEERING, GENERAL	14.0101	0360
ENGLISH EDUCATION	13.1305	0990
ENGLISH, GENERAL	23.0101	0170
ENTOMOLOGY	26.0702	1100
ENVIRONMENTAL CONTROL TECHNOLOGY	15.0599	0680
EVALUATION & RESEARCH	13.0601	0990
EXECUTIVE HOUSEKEEPER	20.0605	1180
EXECUTIVE SECRETARIAL	07.0603	0970
FARM AND RANCH MANAGEMENT	01.0104	0030
FASHION MERCHANDISING	08.0102	0670
FINE ARTS, GENERAL	50.0701	0430
FIRE FIGHTING	43.0203	1070
FIRE PROTECTION, OTHER	43.0299	1070
FLIGHT TRAINING	13.0801	1200
FOOD PRODUCTION, MANAGEMENT AND SERVICES	20.0401	0470
FOOD SCI & HUMAN NUTRITION	19.0502	0810
FOOD SCIENCE/HUMAN NUTRITION, GENERAL	19.0501	0810
FOOD SCIENCES, GENERAL	02.0301	0060
FOOD SERVICE	20.0406	0480
FOREIGN LANGUAGES EDUCATION	13.1306	0990
FOREIGN LANGUAGES, MULT. EMPH.	16.0101	1230
FRENCH	16.0901	1230
GENERAL MARKETING, OTHER	08.0799	0670
GENERAL OFFICE CLERK	07.0705	0960
GEOGRAPHY	45.0701	1050
GEOLOGY	40.0601	1120
GEOPHYSICS	40.0603	1120
GERIATRIC AIDE	17.0601	0830
GERMAN	16.0501	1230
GRAPHIC AND PRINTING COMMUNICATIONS, GEN	48.0201	0160

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ALPHABETICAL LISTING OF DELAWARE PROGRAMS

PROGRAM TITLE	CIP CODE	CLUST NO.
GRAPHIC DESIGN	50.0402	0140
GREENHOUSE OPERATION AND MANAGEMENT	01.0604	0080
HEALTH EDUCATION	13.1307	0990
HEALTH SERVICES, OTHER	18.9999	0850
HEATING AND AIR CONDITIONING	47.0203	0680
HEATING, AIR CONDITING AND REFRIGERATION	47.0201	0680
HISTORY	45.0801	1050
HOME ECONOMICS EDUCATION	13.1308	0990
HOME ECONOMICS, GENERAL	19.0101	1230
HOME HEALTH AIDE	17.0404	0830
HOMEMAKER'S AIDE	20.0606	0830
HORTICULTURE, GENERAL	01.0601	0080
HOTEL/MOTEL MANAGEMENT	06.0701	0020
HOUSING	19.0603	1050
HUMAN NUTRITION	19.0504	0810
INDIVIDUAL & FAMILY DEVELOP	19.0701	1050
INDUSTRIAL ELECTRONICS	47.0105	0720
INDUSTRIAL MACHINERY REPAIR AND MAINTENA	47.0303	0730
INDUSTRIAL PRODUCTION TECHNOLOGY	15.0699	0610
INDUSTRIAL TECHNOLOGY	15.0603	0530
INSTITUTIONAL, HOME MGT. & SUPPORTING SE	20.0601	1180
INSTRUMENT REPAIR	47.0401	0730
INSTRUMENTATION TECHNOLOGY	15.0404	0730
INTERIOR DESIGN	04.0501	0140
INTERNATIONAL RELATIONS	45.0901	1050
JEWELRY	48.0602	0260
JOURNALISM	09.0401	0170
LAUNDERING	12.0103	1190
LAW	22.0101	1000
LAW ENFORCEMENT	43.0107	1080
LEGAL ASSISTING/PARALEGAL	22.0103	1000
LETTERS, ENGLISH, FILM	23.9999	0170
LIBERAL / GENERAL STUDIES	24.0101	1230
LIFE SCIENCES, OTHER	26.9999	1100
LINEWORKER	46.0303	0590
MACHINE BILLING, BOOKEEPING & COMPUTING	07.0104	0380
MACHINE SHOP	48.0503	0610
MARINE MAINTENANCE	49.0306	0740
MARINE POLICY	44.9999	1050
MARINE PROPULSION TECHNOLOGY	15.0804	0740
MARINE STUDIES	30.9999	1120
MARKETING & DISTRIBUTING EDUC	13.1310	0990
MARKETING AND DISTRIBUTING, OTHER	08.9999	0670
MATHEMATICS	27.0101	1020
MATHEMATICS EDUCATION	13.1311	0990
MATHEMATICS, OTHER	27.9999	1020
MECHANICAL DESIGN TECHNOLOGY	15.0805	0350
MECHANICAL ENGINEERING	14.1901	0340
MED. EMERG. TECH/AMBULANCE	17.8205	0820

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ALPHABETICAL LISTING OF DELAWARE PROGRAMS

PROGRAM TITLE	CIP CODE	CLUST NO.
MEDICAL ASSISTING	17.0503	0830
MEDICAL LABORATORY TECHNOLOGY	17.0309	0840
MEDICAL LABORATORY TECHNOLOGY, OTHER	17.0399	0840
MEDICAL OFFICE MANAGEMENT	17.0505	0010
MEDICAL RADIATION DOSIMETRY	17.0207	0930
MEDICAL SECRETARIAL	07.0605	0970
MEDICAL TECHNOLOGY	17.0310	0840
MENTAL HEALTH/HUMAN SERVICES TECHNOLOGY	17.0406	0830
METALLURGICAL ENGINEERING	14.2001	0360
MILLWORK AND CABINET MAKING	48.0703	0270
MISCELLANEOUS CONSTRUCTION TRADES, OTHER	46.0499	0240
MKTG MGT & RESEARCH, OTHER	06.1401	1050
MODELING	08.0103	0670
MOTOR REPAIR	47.0107	0210
MUSIC EDUCATION	13.1312	0990
MUSIC PERFORMANCE	50.0903	0440
MUSIC THERAPY	17.0806	0940
MUSIC, GENERAL	50.0901	0440
NUCLEAR MEDICINE TECHNOLOGY	17.0208	0930
NURSERY OPERATION AND MANAGEMENT	01.0606	0080
NURSING	18.1101	0920
NURSING ASSISTING	17.0602	0830
OCC. SAFETY & HEALTH TECHNICIAN	15.0701	1090
OCCUPATIONAL THERAPY	17.0807	0940
OCCUPATIONAL THERAPY AIDE	17.0809	0940
OFFICE SUPERVISION & MNGMNT	07.0401	0010
OPERATIONS RESEARCH	06.1302	0020
ORNAMENTAL HORTICULTURE	02.0404	0080
PAINTING AND DECORATION	46.0408	0240
PARKS & RECREATION MANAGEMENT	31.0301	1095
PERSONEL AND TRAINING PROGRAMS, OTHER	07.0599	0010
PHILOSPHY & RELIGION	38.0101	1230
PHYSICAL EDUCATION	13.1314	0990
PHYSICAL SCIENCE, GENERAL	40.0101	1120
PHYSICAL THERAPY	17.0813	0880
PHYSICS, GENERAL	40.0801	1120
PIPEFITTING AND STEAMFITTING	46.0502	0230
PLANT SCIENCES, GENERAL	02.0401	0060
PLASTERING	46.0409	0240
PLUMBING	46.0503	0230
PLUMBING AND PIPEFITTING	46.0501	0230
POLITICAL SCIENCE & GOVT	45.1001	1050
POULTRY	02.0209	0060
POWER PLANT OPERATOR	47.0501	0590
PRACTICAL NURSING	17.0605	0910
PRE-ELEMENTARY EDUCATION	13.1204	0990
PRECISION FOOD PRODUCTION, OTHER	48.0499	0470
PRECISION METAL WORK, OTHER	48.0501	0610
PRINTING PRESS OPERATION	48.0208	0160

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ALPHABETICAL LISTING OF DELAWARE PROGRAMS

PROGRAM TITLE	CIP CODE	CLUST NO.
PRODUCTION MANAGEMENT	06.0403	0020
PROTECTIVE SERVICES, OTHER	43.9999	1080
PSYCHOLOGY, GENERAL	42.0101	1030
PSYCHOLOGY, OTHER	42.9999	1030
PUBLIC ADMINISTRATION	44.0401	0020
PUMP ATTENDANT	08.1206	0700
RADIO & TELEVISION PRODUCTION & BROADCAS	10.0104	0180
READING EDUCATION	13.1315	0990
REAL ESTATE, GENERAL	06.1701	0420
RECEPTIONIST AND COMMUNICATION SYSTEMS O	07.0707	0960
RECREATIONAL FACILITIES	31.0201	1095
REFRIGERATION	47.0202	0680
RENEWABLE NATURAL RESOURCES, GENERAL	03.0101	0070
REPAIRS, OTHER	47.0699	0700
RESPIRATORY THERAPY	17.0818	0950
RUSSIAN	16.0402	1230
SALES	08.0706	0670
SCHOOL PSYCHOLOGY	13.0801	0990
SCIENCE EDUCATION	13.1316	0990
SECRETARIAL	07.0606	0970
SECRETARIAL AND RELATED PROGRAMS, GENERA	07.0601	0970
SECURITY SERVICES	43.0109	1080
SHEET METAL WORKERS	48.0506	0620
SHORTHAND	07.0699	0970
SLAUGHTERING AND BUTCHERING	48.0403	0460
SMALL APPLIANCE REPAIR	47.0108	0750
SMALL ENGINE REPAIR	47.0606	0700
SOCIAL FOUNDATIONS	13.0901	0990
SOCIAL STUDIES EDUCATION	13.1318	0990
SOCIAL WORK	44.0701	1040
SOCIOLOGY	45.1101	1050
SPANISH	16.0905	1230
SPECIAL EDUCATION, GENERAL	13.1001	0990
STATIONARY ENERGY SOURCES, OTHER	47.0599	0590
STATISTICS	27.0501	1020
STENOGRAPHIC	07.0607	0970
STOCK CLERK	07.0708	0540
STUDENT COUNSELING & PERS SER	13.1101	0990
TAXATION (ACCOUNTING)	06.1901	0370
TEACHER EDUCATION, SPECIFIC SUBJECT AREA	13.1399	0990
TECHNICAL REPORT WRITING	23.1101	0170
TEXTILE SCIENCE	19.0904	0600
TEXTILE TECHNOLOGY	15.0609	0600
TEXTILES & CLOTHING, RETAIL	19.0903	0670
TOURISM	08.1104	0660
TRANSPORTATION AND MATERIAL MOVING, OTHE	49.9999	0550
TRANSPORTATION MANAGEMENT	06.0705	0020
TRAVEL SERVICES MARKETING	08.1105	0660
TRUCK AND BUS DRIVING	49.0205	1220

ALPHABETICAL LISTING OF DELAWARE PROGRAMS

PROGRAM TITLE	CIP CODE	CLUST NO.
TYPING	07.0710	0960
TYPING II	07.0702	0960
TYPING, GENERAL OFFICE	07.0701	0960
TYPING, GENERAL OFFICE AND RELATED PROGR	07.0799	0960
UPHOLSTERY	48.0303	0280
URBAN STUDIES	45.1201	1050
VEHICLE AND MOBILE EQUIPMENT MECHANICS	47.0601	0700
VETERINARIAN AIDE	17.0511	1195
VETERINARIAN AIDE	17.0511	1195
VETERINARIAN AIDE	17.0511	1195
VETERINARIAN AIDE	17.0511	1195
WAITRESS	08.0905	0480
WAREHOUSEMAN, MATERIALS HANDLER	49.0203	0540
WELDING TECHNOLOGY	15.0610	0630
WELDING, BRAZING, AND SOLDERING	48.0508	0630
WORD PROCESSING	07.0608	0970

APPENDIX G: HIGH-GROWTH DELAWARE OCCUPATIONS

TWENTY-FIVE OCCUPATIONS WILL ACCOUNT FOR NEARLY 60% OF ALL NEW JOBS GENERATED 1984-1990:

Occupations	New Job Growth to 1990	% of Job Growth	Ann.Avg Job Openings	Percent Change 84-90
ALL OCCUPATIONS	42,602	100.0	15,671	14.3
Secretaries	2,651	6.22	829	28.14
All Other Managers	2,596	6.09	574	13.15
Sales Clerks	2,577	6.04	976	19.77
Food Prep. & Serv. Wkrs	1,772	4.15	461	38.92
Janitors, Porters, & Cleaners	1,665	3.90	459	17.40
Cashiers	1,215	2.85	366	27.48
Preschool/Elem. Teachers	1,208	2.83	369	32.46
Nurses, Prof. (RN)	1,150	2.69	356	27.83
Nurses Aides/Orderlies	998	2.34	321	24.97
General Clerks, Office	961	2.25	411	12.00
Systems Analysts, EDP	806	1.89	148	84.93
All Other Sales Workers	749	1.75	133	11.76
Waiters or Waitresses	661	1.55	287	13.29
Guards and Doorkeepers	572	1.34	353	25.66
Managers, Store	547	1.28	244	13.16
All Other Oper. & Semi-Sk. Wkrs	526	1.23	221	9.19
Typists	520	1.22	222	15.27
Truck Drivers	482	1.13	151	10.76
Clerical Supervisors	473	1.11	140	32.11
All Other Office Clerical Workers	456	1.07	151	17.54
Licensed Practical Nurses (LPN)	443	1.03	154	28.49
Kitchen Helpers	409	0.96	172	12.74
Sales Agent/Sales Rep., Insurance	406	0.95	98	43.99
Teachers, Secondary	405	0.95	191	9.15
Cosmetologists/Hairstylists	394	0.92	134	25.67

APPENDIX H: EDUCATIONAL PREPARATION FOR SELECTED OCCUPATIONS

Fast-Growing Occupations Requiring High School Degree Or Less:

Occupation	% Change in Employment 1984-1990	Employment 1984
Credit Clerks	68	478
Collectors	64	610
Claims Clerks	46	276
Mail Clerks	46	219
Child Care Workers	41	908
Food Preparation & Service Wkrs.	39	4,553
Survey Workers	32	96
Secretaries	28	9,421
Cashiers	28	4,422
Guards, Doorkeepers	26	2,229
Insurance Clerks, Medical	26	165
Nurses Aides/Orderlies	25	3,997
Bartenders	22	1,119
Social Service Aides	20	202
Host/Hostess, Restaurant	20	459
Janitors, Porters & Cleaners	17	9,571
Typists	15	3,406

Fast-Growing Occupations Requiring Some Postsecondary Education, But Less Than A Bachelor's Degree:

Occupation	% Change in Employment 1984-1990	Employment 1984
Data Processing Machine Mech.	132	66
Office Machine Repairers	74	89
Paralegal Personnel	69	161
Computer Operators	46	731
Claims Examiners, Prop/Casualty	45	62
Claims Examiners, Insurance	41	211
Mechanical Engineering Tech.	31	98
Nurses, Professional (RN)	28	4,132
All Other Engineering Technicians	28	538
Inhalation Therapists	27	77
Surgical Technicians	27	62
Dental Hygienists	26	253
X-ray Technicians	26	204
Dental Assistants	24	375
Physical Therapy Technicians	24	70
Electrical/Electronic Technicians	20	686
Teacher's Aides/Educ. Assistants	15	1,196
Civil Engineering Technicians	5	226

Occupations Requiring A Degree and Expected To Generate More Than 100 New Jobs, 1984-1990:

Occupation	% Change 1984-90	Job Growth
All Occupations	14.3	42,602
Teachers, Kindergarten/Elem.	32.5	1,208
Computer Systems Analysts	84.9	806
Teachers, Secondary	9.2	405
Accountants/Auditors	14.5	393
Chemical Engineers	20.9	329
Physicians	19.2	257
Computer Programmers	32.2	255
All Other Prof. Workers	9.1	230
Chemists	13.9	220
Teachers, Adult Education	36.4	179
Clergy	26.2	171
Lawyers	9.6	165
Caseworkers	13.0	117

APPENDIX I: A REGIONAL PERSPECTIVE

New Jersey: Labor Market Area of Cumberland, Gloucester, and Salem Counties

Pennsylvania: Three Counties: Chester, Delaware, and Philadelphia

Data in this section have been aggregated and formatted by the Delaware Occupational Information Coordinating Committee, Office of Occupational and Labor Market Information, Delaware Department of Labor.

GLOUCESTER, SALEM, CUMBERLAND COUNTIES, NJ: 1982-1990

CLUSTER TITLE	CUR EMP	PROJ EMP	AVG GRO	AVG REPL	AVG OPEN	SUPPLY
ADMINISTRATORS & MANAGERS	450	600	20	30	50	0
ADVERTISING SERVICES	50	50	0	0	0	1
AGRIC. POWER & MACHINERY	0	0	0	0	0	1
AGRIC. PRODUCTION	0	0	0	0	0	24
AGRICULTURAL BUSINESS	100	100	0	0	0	3
AIR CONDITIONING & REFRIG.	300	400	0	0	0	28
ARCHITECTS	50	50	0	0	0	0
AUTO & ENGINE MECHANIC	2200	2300	10	40	50	206
AUTO BODY REPAIR	250	300	0	0	0	1
AVIATION OCCUPATIONS	150	150	0	0	0	3
BARBERING	150	200	10	10	20	0
BOOKKEEPING & ACCOUNTING	6300	7300	130	230	360	69
BRICK, CEMENT, & STONEMASONS	450	400	-10	10	0	39
CARPENTRY & RELATED	1350	1250	-10	40	30	75
CASINO OCCUPATIONS	0	0	0	0	0	24
CHEMICAL TECH/PLANT OPER.	1250	850	-40	30	-10	11
CHEMISTS	450	400	0	10	10	0
CHILD CARE SERVICES	850	1100	30	30	60	84
CHIROPRACTORS	50	50	0	0	0	0
CIVIL TECHNOLOGY	150	150	0	0	0	4
CLERGY	300	350	10	10	20	0
COMMERCIAL ART	250	300	0	0	0	0
COMMERCIAL PHOTOGRAPHY	100	150	0	0	0	38
COMMUNICATIONS OCCUPATIONS	1450	1500	10	40	50	203
COMPUTER OPERATORS	250	350	10	0	10	21
COMPUTER SCIENCE OCCUPATIONS	500	700	20	0	20	244
COSMETOLOGY	700	900	20	30	50	11
CUSTODIAL & MAINTENANCE	4850	5550	90	280	370	303
DATA ENTRY OPERATORS	350	300	0	10	10	5
DENTAL SERVICES	300	450	10	10	20	2
DENTISTS	300	350	10	10	20	0
DRAFTING	450	450	0	10	10	129
EDUCATION	7800	7650	-30	230	210	225
ELECTRIC OCCUPATIONS	1300	1100	-20	30	10	44
ELECTRIC/ELECTRONIC TECH.	900	950	10	0	10	36
ELECTRONIC OCCUPATIONS	100	100	0	0	0	69
ENGINEER, CHEMICAL	800	900	0	10	10	0
ENGINEER, CIVIL	300	250	0	10	10	0
ENGINEER, ELECTRICAL	200	300	10	0	10	0
ENGINEER, INDUSTRIAL	100	100	0	0	0	0
ENGINEER, MECHANICAL	250	300	0	10	10	0
ENGINEER, OTHER	150	150	0	0	0	0
FINANCE & CREDIT	1200	1350	10	20	30	12
FIRE & FIRE SAFETY	50	100	0	0	0	0
FOOD PRODUCTION & PROCESS.	650	600	-10	10	0	1
FOOD SERVICES	7450	8650	160	330	490	137
FOOD STORE MARKETING	800	850	10	20	30	41
FORESTRY LOGGING & LUMBER	50	50	0	0	0	0
FOUNDRY OCCUPATIONS	100	50	0	0	0	0

GLOUCESTER, SALEM, CUMBERLAND COUNTIES, NJ: 1982-1990

CLUSTER TITLE	CUR EMP	PROJ EMP	AVG GRO	AVG REPL	AVG OPEN	SUPPLY
GENERAL CLERICAL & TYPING	8500	9350	150	340	490	120
GENERAL MACHINIST	1400	1550	0	40	40	48
HEALTH/HUMAN SERVICES	200	300	10	20	30	9
HORTICULTURE & LANDSCAP.	300	350	10	20	30	30
HOTEL & LODGING SERVICE	100	150	10	10	20	0
INDUSTRIAL MAINTENANCE	550	500	0	10	10	39
INDUSTRIAL TECHNOLOGY	0	0	0	0	0	28
INFORMATION SPECIALISTS	350	400	10	10	20	17
INSURANCE SERVICES	700	700	0	10	10	0
INVENTORY & MATERIAL HANDL.	5900	6350	60	130	190	27
LAW ENFORCEMENT SERVICES	2400	3200	90	160	250	149
LAW OCCUPATIONS	700	950	20	50	70	3
LIBRARIANS	200	250	0	10	10	0
MATHEMATICIANS	50	50	0	0	0	14
MEDICAL LABORATORY TECHNOL.	200	250	0	0	0	0
MINING & HEAVY CONSTRUCTION	2000	1500	-80	30	-50	43
MISCELLANEOUS REPAIR	700	700	0	10	10	35
NURSING RELATED SERVICES	1700	2300	80	80	160	103
NURSING SERVICES	3550	3550	120	120	240	295
OFFICE ADMIN. & MANAGEMENT	10600	11150	70	390	460	399
OPERATIVES-PLAST,LEATH,RUBB.	350	450	10	10	20	1
OPTHALMIC SERVICES	50	50	0	0	0	0
OPTOMETRISTS	50	50	0	0	0	0
OTHER CONSTRUCTION	1150	750	-40	20	-20	110
OTHER LABORERS	7450	6750	-70	180	110	0
OTHER METAL WORKING	650	550	-10	10	0	12
PAPER, GLASS & OTHER MAT.	6950	6600	-20	180	160	0
PERSONAL SERVICES	600	700	0	30	30	11
PERSONNEL & LABOR RELATIONS	300	350	0	10	10	0
PHARMACISTS	200	250	10	10	20	0
PHARMACY TECHNOLOGY	50	50	0	0	0	0
PHYSICAL SCIENTISTS	0	0	0	0	0	4
PHYSICIANS	550	750	30	10	40	0
PLUMBERS & PIPEFITTERS	1350	1050	-40	40	0	25
PODIATRISTS	50	50	0	0	0	0
POWER UTILITIES OCCUPATIONS	350	300	-10	10	0	4
PRINTING & GRAPHIC ART	500	600	0	0	0	92
PRODUCTION SUPERVISORS	2600	2450	-10	70	60	4
PSYCHOLOGISTS	100	150	0	0	0	48
QUALITY CONTROL	3600	3300	-30	120	90	0
RADIOLOGY	150	150	0	0	0	0
REAL ESTATE SERVICES	100	100	0	10	10	1
RECREATION & TOURISM	450	600	10	0	10	48
REHABILITATION SERVICES	200	250	0	0	0	29
SANITATION & PUBLIC HEALTH	450	450	0	10	10	0
SECRETARY-STENOGRAPHIC	3650	4450	100	170	270	201
SHEET METAL OCCUPATIONS	450	450	0	10	10	10
SOCIAL SCIENTISTS	100	150	0	0	0	19
SOCIAL WORKERS	950	1050	10	40	50	12

GLOUCESTER, SALEM, CUMBERLAND COUNTIES, NJ: 1982-1990

CLUSTER TITLE	CUR EMP	PROJ EMP	AVG GRO	AVG REPL	AVG OPEN	SUPPLY
TECHNICAL HEALTH SERVICES	250	350	10	10	20	0
TEXTILE INDUSTRY OCCUPATIONS	2600	2350	-20	100	80	80
TOOL & DIE MAKING	150	200	0	10	10	0
VEHICLE OPERATORS	4650	4900	40	120	160	2
WELDING OCCUPATIONS	650	550	-10	10	0	60
WHOLESALE & RETAIL MARKETING	11000	12700	210	430	640	143
WOODWORKING OCCUPATIONS	100	100	0	0	0	35
WRITERS, AUTHORS, & ARTISTS	200	250	0	0	0	80

CHESTER COUNTY, PENNSYLVANIA: 1980-1990

CLUSTER TITLE	CUR EMP	PRO EMP	AVG GRO	AVG REPL	AVG OPEN	TOT SUP
AGRICULTURAL	9398	8475	-91	395	304	44
ALLIED HEALTH	4691	6235	157	199	356	106
ARCHITECTURE & DESIGN	219	238	2	7	9	0
BASIC SKILLS	0	0	0	0	0	51
BUSINESS & MANAGEMENT	11369	12098	12	463	475	260
BUSINESS & OFFICE	22981	34610	162	871	1039	769
COMMUN. & PUBLIC SERVICES	273	293	1	10	11	36
COMMUNICATIONS	252	256	0	9	9	2
COMPUTER & INFO. SCIENCES	1424	2012	59	18	77	128
CONSTRUCT. TRADES, OTHER	6960	6648	-30	208	178	113
CONSUMER ECONOMICS	12890	14527	165	653	818	20
CONSUMER/PERSONAL SERV.	1272	1353	10	61	71	170
EDUCATION	9393	9289	-10	308	298	539
ELECTRICAL/ELECTRONICS	4611	4698	8	111	119	320
ENG.-RELATED TECHNOLOGIES	3920	4097	19	99	118	37
ENGINEERING & RELATED	2597	2852	25	60	85	0
FINE ARTS	139	162	2	6	8	19
HOME ECONOMICS	73	96	2	4	6	24
LAW	790	1052	26	56	82	0
LEISURE/RECREATION	44	61	2	4	6	0
LIBRARY SCIENCES, RELATED	540	543	1	20	21	0
LIFE SCIENCES	250	260	1	7	8	65
LITERATURE/COMPOSITION	169	177	1	6	7	116
MARKETING & DISTRIBUTION	28447	29439	94	1131	1225	83
MATHEMATICS/STATISTICS	260	291	3	6	9	14
MULTIDISCIPLINARY STUDIES	0	0	0	0	0	6
PHILOSOPHY & RELIGION	0	0	0	0	0	3
PHYSICAL SCIENCES	527	567	4	12	16	29
PROFESSIONAL MEDICAL	3362	4374	102	129	231	90
PROTECTIVE SERVICES	1751	1872	12	101	113	104
PSYCHOLOGY	161	215	5	4	9	103
RELIGION & THEOLOGY	605	693	9	37	46	112
SCIENCE TECHN., OTHER	335	336	0	6	6	0
SCIENCES	269	259	-2	10	8	0
SKILLED CRAFT WORK	7685	7247	-44	203	159	87
SOCIAL SCIENCES	142	173	4	5	9	131
TRANSPORTATION & MOVING	4722	4594	-10	127	117	0

DELAWARE COUNTY, PENNSYLVANIA: 1980-1990

CLUSTER TITLE	EMP CUR	EMP PRO	AVG GRO	AVG REP	AVG OPEN	TOTAL SUPPLY
AGRICULTURAL	2955	3033	8	143	158	32
ALLIED HEALTH	8522	11238	274	360	634	548
ARCHITECTURE & DESIGN	338	368	3	11	14	[illegible]
AREA & ETHNIC STUDIES	0	0	0	0	0	2
BASIC SKILLS	0	0	0	0	0	[illegible]
BUSINESS & MANAGEMENT	18331	18654	35	698	733	7245
BUSINESS & OFFICE	49788	53243	343	1888	2231	2505
COMMUN. & PUBLIC SERVICES	486	515	3	19	22	37
COMMUNICATION TECHN.	87	86	0	7	7	0
COMMUNICATIONS	387	390	0	14	14	118
COMPUTER & INFO. SCIENCES	1816	2555	74	23	97	164
CONSTRUCT. TRADES, OTHER	10641	10002	-63	318	255	137
CONSUMER ECONOMICS	20783	23507	272	1054	1326	674
CONSUMER/PERSONAL SERV.	3251	3470	24	141	165	370
EDUCATION	13181	13040	-14	431	417	311
ELECTRICAL/ELECTRONICS	8350	8453	11	217	206	346
ENG.-RELATED TECHNOLOGIES	5320	5488	29	125	154	1364
ENGINEERING & RELATED	4305	4719	41	102	143	465
FINE ARTS	270	316	5	12	17	36
FOREIGN LANGUAGES	0	0	0	0	0	30
HOME ECONOMICS	101	137	3	5	8	18
LAW	1596	2115	52	116	168	214
LEISURE/RECREATION	95	134	4	8	12	1
LIBERAL/GENERAL STUDIES	0	0	0	0	0	218
LIBRARY SCIENCES, RELATED	730	733	0	26	26	32
LIFE SCIENCES	185	192	1	4	5	166
LITERATURE/COMPOSITION	310	324	1	11	12	132
MARKETING & DISTRIBUTION	49862	51764	189	1960	2149	823
MATHEMATICS/STATISTICS	183	224	0	5	9	54
MULTIDISCIPLINARY STUDIES	0	0	0	0	0	21
OUTDOOR RECREATION	0	0	0	0	0	8
PHILOSOPHY & RELIGION	0	0	0	0	0	65
PHYSICAL SCIENCES	530	573	4	12	16	124
PROFESSIONAL MEDICAL	7141	9321	218	273	491	589
PROTECTIVE SERVICES	5121	5445	32	325	357	294
PSYCHOLOGY	184	245	6	4	10	129
RELIGION & THEOLOGY	897	1027	13	55	68	5
SCIENCE TECHN., OTHER	392	394	0	7	7	17
SCIENCES	190	175	-1	6	5	0
SKILLED CRAFT WORK	13982	13175	-77	372	295	190
SOCIAL SCIENCES	145	183	4	5	9	377
TRANSPORTATION & MOVING	7242	7094	-15	197	182	16

PHILADELPHIA COUNTY, PENNSYLVANIA: 1980-1990

CLUSTER TITLE	CUR EMP	PRO EMP	AVG GRO	AVG REPL	AVG OPEN	TOTAL SUPPLY
AGRICULTURAL	4297	4429	13	207	220	139
ALLIED HEALTH	30479	39887	944	1279	2223	2469
ARCHITECTURE & DESIGN	840	909	7	27	34	252
AREA & ETHNIC STUDIES	0	0	0	0	0	83
BUSINESS & MANAGEMENT	33833	34410	57	1279	1336	4452
BUSINESS & OFFICE	142172	150625	848	5335	6183	7829
COMMUN. & PUBLIC SERVICES	2118	2271	16	82	98	288
COMMUNICATION TECHN.	296	305	1	24	25	0
COMMUNICATIONS	1222	1249	3	42	45	588
COMPUTER & INFO. SCIENCES	3269	4482	121	42	163	1862
CONSTRUCT. TRADES, OTHER	25336	24241	-113	795	682	413
CONSUMER ECONOMICS	83331	90292	695	4238	4933	1587
CONSUMER/PERSONAL SERV.	11419	12014	58	528	586	1363
EDUCATION	28177	28140	-3	944	941	1118
ELECTRICAL/ELECTRONICS	18081	18413	34	482	516	1347
ENG.-RELATED TECHNOLOGIES	14572	15291	73	379	452	1174
ENGINEERING & RELATED	4023	4411	38	95	133	1424
FINE ARTS	890	1063	17	38	55	829
FOREIGN LANGUAGES	0	0	0	0	0	98
HOME ECONOMICS	389	525	14	19	33	258
LAW	4078	5315	124	300	424	751
LEISURE/RECREATION	259	363	10	21	31	0
LIBERAL/GENERAL SCIENCES	0	0	0	0	0	452
LIBRARY SCIENCES, RELATED	1932	1945	2	70	72	105
LIFE SCIENCES	557	581	3	15	18	514
LITERATURE/COMPOSITION	843	880	4	30	34	388
MARKETING & DISTRIBUTION	101970	106198	420	3936	4356	1736
MATHEMATICS/STATISTICS	320	382	7	9	16	144
MULTIDISCIPLINARY STUDIES	0	0	0	0	0	61
NAT. RESOURCES & CONSERV.	220	223	0	6	6	4
PARKS/OUTDOOR RECREATION	63	92	2	2	4	61
PHILOSOPHY & RELIGION	0	0	0	0	0	80
PHYSICAL SCIENCES	721	775	5	17	22	372
PROFESSIONAL MEDICAL	14551	18969	444	555	999	3260
PROTECTIVE SERVICES	23907	25185	127	1297	1424	330
PSYCHOLOGY	608	809	20	13	33	497
RELIGION & THEOLOGY	2080	2381	30	127	157	106
SCIENCE TECHN., OTHER	677	680	1	12	13	0
SCIENCES	1419	1201	-20	39	19	0
SKILLED CRAFT WORK	45203	42494	-271	1215	944	2281
SOCIAL SCIENCES	529	600	7	20	27	1100
TRANSPORTATION & MOVING	26128	25621	-52	723	671	80